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DEPT. OF WATER RESOURCES
DEPT. OF WATER RESOURCES
SEPARTMENT OF WATER RESOURCES

District Court - SRBA Fifth Judicial District In Re: Administrative Appeals Transferty of Twen Falls - State of Idatro

MINIMUM REQUIREMENTS CHECKLIST
TO BE SUBMITTED WITH APPLICATION FOR TRANSFER

MAY 1 3 2016

An application for transfer must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. Incomplete applications will be returned. The instructions, fee schedule, Part 2A reports and additional Part 2B forms are available from any Department office or on the Department's website at <a href="http://www.idwr.idaho.gov/">http://www.idwr.idaho.gov/</a>. Deputy Clerk

Yes ☑	N/A *	Check whether each item below is attached (Yes) or not applicable (N/A) for the proposed transfer.  * Means the item is always required and must be included with the application.  Completed Application for Transfer of Water Right form, Part 1.
	*	Signature of applicant(s) or applicant's authorized representative on Application for Transfer Part 1. Include evidence of authority labeled Attachment #3 (see below) if signed by representative.
$\checkmark$	ŵ	Application for Transfer Part 2A. Attach a Part 2A report describing each water right in the transfer as currently recorded.
1		Complete and attach an Application for Transfer Part 2B for each water right for which only a portion is proposed to be changed through this transfer application
Z	*	Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
	*	Correct fee submitted with transfer application form. (Fee schedule is on website and instructions for application for transfer.)
		Attachments to Application - Label each attachment with the corresponding number shown below as Attachment #1-9.
Ø		#1 If the applicant is a business, partnership, organization, or association, and <u>not</u> currently registered in the State of Idaho as a business entity, attach documentation identifying officers authorized to sign or act on behalf of right holder. (See Part 1.)
V V		#2a Water Right ownership documentation if Dept. records do not show the transfer applicant as the current water right owner.  #2b If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s).
	Ø	#3 Documentation of authority to make the change if the applicant is not the water right owner.
	V	#4 Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
	Ø	#5 If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at <a href="http://www.idwr.idaho.gov/water/rights/">http://www.idwr.idaho.gov/water/rights/</a> .
Ø	П	#6 Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in the water right(s) or land affected by the proposed transfer. (See Part 1.5.c.)
Ø	*	#7a Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed,
团		identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)  #7b If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
Ø		#8a If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and document how enlargement
Ø		will be avoided. (See Part 3B.)  #8b If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic use of the supplemental right(s) and availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
		#9 Other. Please describe:

	No. 1	
Rev. 06/09 Page of		No. or
	STATE OF IDAHO DEPARTMENT OF WATER RESOUR	
APPLICA	ATION FOR TRANSFER OF \ PART 1	WATER RIGHT
Name of Applicant(s) Idaho Water Comp	pany	Phone 208-312-1135
Mailing address 1135 Valley Road South	1 Eden, ID 83325	Email
authorized to sign or act on behalf  Attach water right ownership docu Label it Attachment #2a.  If the ownership of the water right showing land and water right owne Attachment #2b.	of the applicant. Label it Attachment #1. mentation if Department records do not show twill change as a result of the proposed transferership at the new place of use. Include docume	daho, attach documentation identifying officers the transfer applicant as the current water right owner. r to a new place of use, attach documentation entation for all affected land and owner(s). Label it s not the water right owner. Label it Attachment #3.
Provide contact information below if a co  No Representative	onsultant, attorney, or any other person is repre	senting the applicant in this transfer process.
	Brockway Engineering	
Mailing address 2016 North Washington	Street, Suite 4 Twin Falls Idaho 83301	Email greg.sullivan@brockwayeng.com
	plication to the representative and not to the ap	pplicant.
OR  Z Send original correspondence to the	e applicant and copies to the representative.	
•	ormation for the applicant but is not authorized	to sign for the applicant.
OR  The representative is authorized to sign for the applicant and label it A		rney or other documentation providing authority to
I hereby assert that no one will be i	njured by the proposed changes and that th	e proposed changes do not constitute an
•	• ''	application is true to the best of my knowledge. I
understand that any willful misrep of an approval.	resentations made in this application may re	esult in rejection of the application or cancellation
Signature of Applicant or Authorize	Consoun LC In	its if applicable Date
Signature of Applicant or Authorize	Representative Print Name and T	itle if applicable
A. PURPOSE OF TRANSFER		
1	Add diversion point(s)	place of use

Other\_

☐ Change period of use

the dairy facility owned by Triple J Diary. Correct the POD description for 47-13694.

2. Describe your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred (i.e.

number of stock, etc.), and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it Part 1A.2.9.1 acres of irrigated land will be dried up and changed to stock and commercial water to be used on

Change nature of use

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Total Acres (for irrigation use) S/C, D

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### STATE OF IDAHO DEPARTMENT OF WATER RESOURCES

### APPLICATION FOR TRANSFER OF WATER RIGHT PART 1 Continued

3.0mm	PART 1 Continued
	Pascribe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works
a.	should they be required now or in the future: Existing well, pump and piping system.
h	Who owns the property at the point(s) of diversion? Triple J Dairy
υ.	Who owns the property at the point(s) of diversion? The socially  If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system:
c.	Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?
	If yes, Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes on official letterhead signed by an authorized representative. Label it Attachment #6. List the name of the entity and type of lien: Farmers National Bank
	It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that
	may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this
	application may result in rejection of the application or cancellation of an approval.
d.	Describe the effect on the land now irrigated if the place or purpose of use is changed pursuant to this transfer:  9.1 Acres of irrigated land will be dried up.
e.	Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be
с.	transferred at both the existing and proposed point(s) of diversion and place(s) use:
	47-7287 and 47-14285 at Leno Farm
f.	To your knowledge, has/is any portion of the water right(s) proposed to be changed:
Y	No  undergone a period of five or more consecutive years of non-use,
Ľ	currently leased to the Water Supply Bank,
L	currently used in a mitigation plan limiting the use of water under the right, or currently enrolled in a Federal set-aside program limiting the use of water under the rights?
ilines.	If yes, describe:
	21 yes, describe.

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Total Acres (for inigation use)	Total Acres (for	irrigation	use)	9.1
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### IDAHO DEPARTMENT OF WATER RESOURCES APPLICATION FOR TRANSFER OF WATER RIGHT PART 2A

Current Water Right No.: 47-7105

Current Owner:

DOROTHY LENO

THOMAS LENO

Priority Date:

12/25/1970

Origin:

Water Right

Status:

Active

Basis;

Decreed

Source

Tributary

**GROUND WATER** 

Beneficial Use	From To	Diversion Rate	Annual Volume
IRRIGATION	04/01 to 11/01	1.85 CFS	465 AF
	Total Diversion	1.85 CFS	465 AF

Location of Point(s) of Diversion

GROUND WATER

NW1/4SW1/4SW1/4

Sec. 20, Twp 16S, Rge 16E B.M.

TWIN FALLS County

Place of Use

IRRIGATION Within TWIN FALLS County

T16S R16E S20	swsw	40.00	T16S R16E S20	SESW	12.00
T16S R16E S29	NENW	28.00	T165 R16E S29	NWNW	40.00
T16S R16E S29	SWNW	20.00	T16S R16E S29	SENW	15.00

Total Acres: 155

### Conditions of Approval:

This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.0 afa per acre at the field headgete for irrigation of the lands below. R62

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), idaho Code. C18

Decreed Date: 6/1/2010

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### **IDAHO DEPARTMENT OF WATER RESOURCES** APPLICATION FOR TRANSFER OF WATER RIGHT PART 2A

Current Water Right No.: 47-13694

Current Owner:

**FLINT JACOBSON** 

DUFF JACOBSON

TRIPLE J DAIRY

Priority Date:

12/31/1960

Origin:

Water Right

Status:

Active

Basis:

Decreed

Source

**Tributary** 

GROUND WATER

Beneficial Use

From To

**Diversion Rate** 

Annual Volume

DOMESTIC STOCKWATER

01/01 to 12/31 01/01 to 12/31 0.04 CFS 0.26 CFS

**Total Diversion** 

0.26 CFS

16 AF

Location of Point(s) of Diversion

TWIN FALLS County

GROUND WATER

NE1/4NW1/4NE1/4

Twp 10S. Rge 14E B.M.

TWIN FALLS County

GROUND WATER

NE1/4NW1/4NE1/4

Sec. 15, Twp 10S, Rge 14E B.M.

Place of Use

STOCKWATER Within TWIN FALLS County

T10S R14E S15

NWNE

DOMESTIC Within TWIN FALLS County

T10S R14E S15

NWNE

### Conditions of Approval:

N09 The quantity of water decreed for this water right for domestic use and 1. stockwater use is not a determination of historical beneficial use.

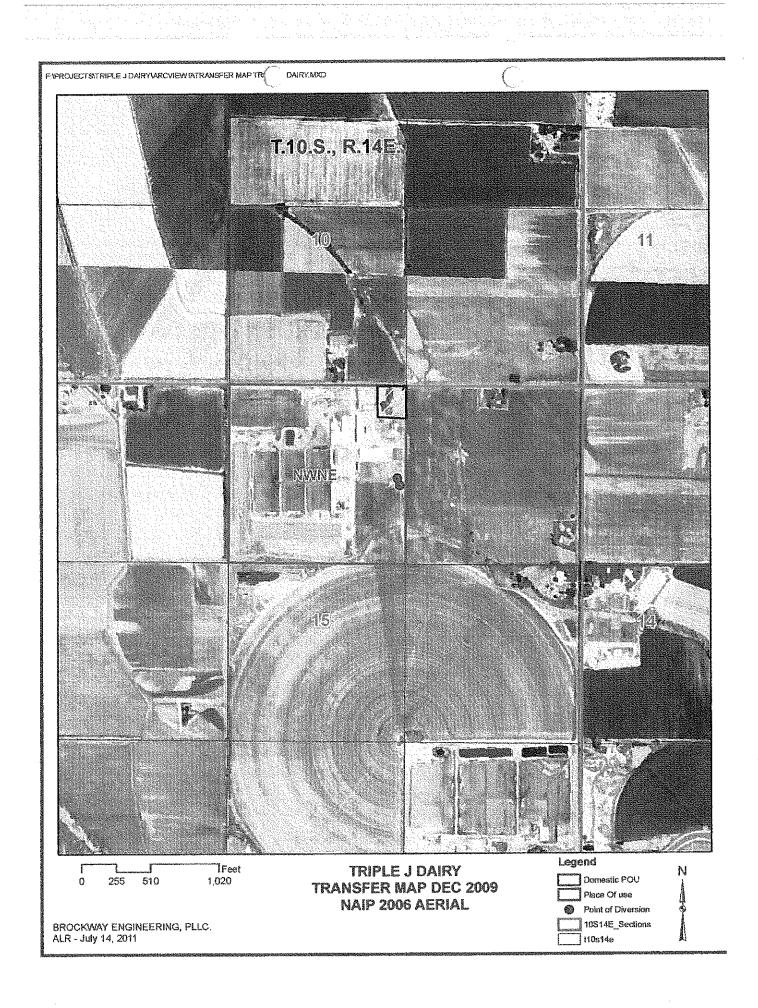
The quantity of water under this right for domestic use shall not exceed  $13,000\ \mathrm{gallons}$  per day. N12

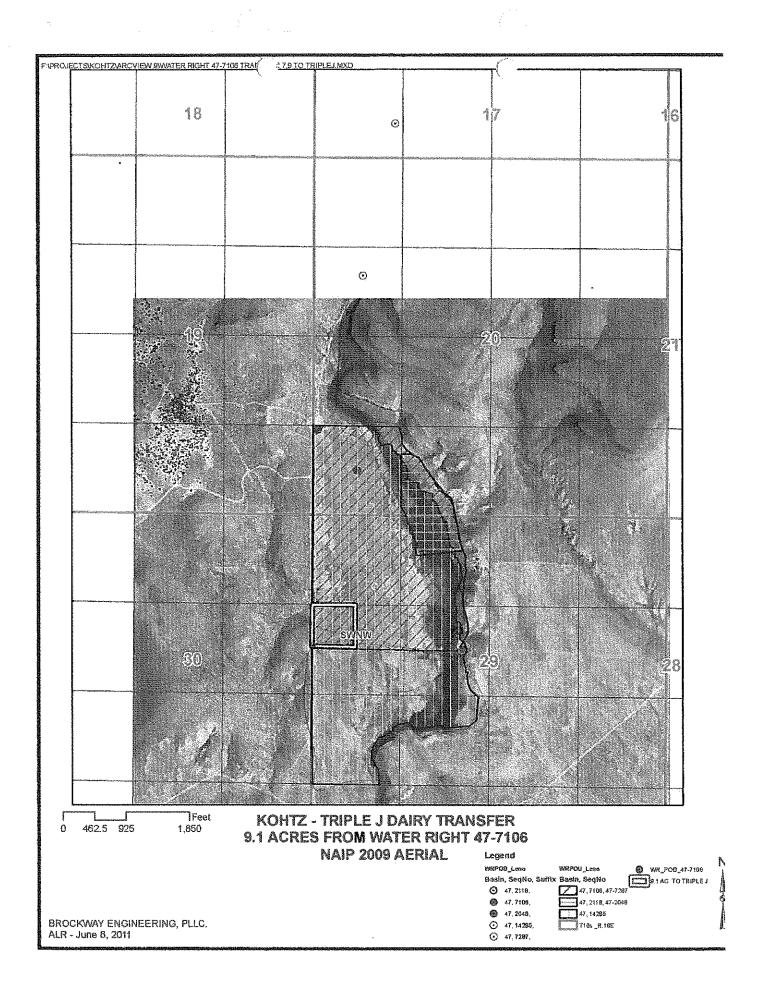
Э. X02 Stockwater use is for 400 dairy cattle.

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code. C18

Page	of
Decreed Date: 6/1	/2010

Rev. 06/09		*	
Page of			
		E OF IDAHO OF WATER RESOURCES	
	APPLICATION FOR TR	ANSFER OF WATER R PART 3	RIGHT
Attach a map of the If the transfer applie (GIS) shape file, or of use. Label it Att required if the applie	t 3A of Instructions for applications of diversion, measurement, control, and cation proposes to change the place or pan aerial photo or other image clearly cachment #7b. If the place of use currication contains a clear statement that that number of irrigated acres within the p	distribution system. Label it Attachrourpose of use of an irrigation right at delineating the location and extent of ently consists of a permissible place one boundaries for the place of use are	nent #7a.  tach a Geographic Information System existing acres and changes to the place of use, then the attachment is not not proposed to be changed by the
If you propose to cl describing the exter	RE OF USE (Water Balance) hange the nature of use or period of use nt of historic beneficial use of the portio prtion of the right(s) to be changed will ttachment #8a.	on of the right(s) proposed to be chan	ged. Also attach documentation
	NGES TO SUPPLEMENTAL IRRIG hange the place of use of a supplementa nt #8b.		attach supporting documentation.
1. Describe how the supp	plemental water rights have been used h	nistorically in conjunction with other	water rights at the existing
place of use. Describe	e the time during the irrigation season t	hat the supplemental rights have been	used. Include information about the
availability or reliabili	ity of the primary right(s) being suppler	nented, both before and after the char	nge. If the applicant is proposing to
change a supplementa	l irrigation right to a primary right, pro-	vide the information required on Part	3B above.:
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	FOR DEP	ARTMENT USE ONLY	
Transfer contains	pages and	attachments.	
Received by SOUTH		Prelim. Check by	Date
Fee Paid		Receipted by A. SKINNER	······································
Add'l Fee Paid \$/50		Receipted by C. SKINNER	Receipt # 503Z0Y0
			**************************************





## State of Idaho Department of Water Resources Relinquishment of Water Right

I, <u>Tom Leno</u>, hereby give my consent for the State of Idaho to dry up, <u>9.1</u> acres of irrigation water located at <u>Township 16 South Range 16 East Section</u>

<u>29 SWNW, Boise Meridian</u> pertaining to Water Rights No. 47-7287 pending the approval of submitted Application for Transfer that this water right is correlated to. Water Right 47-7287 has a beneficial use of Irrigation Storage and Irrigation from Storage. It is my understanding that I will retain the volume of 24.8 AFA and that a place of use of 67.0 acres for 47-7287 will be defined with a future Application for Transfer.

Signed this	day of 1 July 2011.
•	Jonn Hono Water Right Holder(s)
Subscribed and sworn before me t	this day of
NOTARY PUBLIC	M. Om Pmp (Notary Public)
My Commission expires	Juil 5, 2016

USE TYPEWRITER OR BALL POINT PEN

### State of Idaho Department of Water Administration

### DEBENDER ...

### **WELL DRILLER'S REPORT**

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or shandgement of the well.

within 30 days after comple	tion or source	manomic G	1 (10 9701).					
1. WELL OWNER	7. WATER	LEVEL	Den:	رن ا دران	٠ ٠	-		
	Ī		- The wife of the contract of	•				
Name TOM Levo	Static water level							
Address 2225 C25+1 berry Lane Los vapas, Nevada Owner's Permit No.	7. WATER LEVEL  Department of the well.  Static water level 77 feet below land statice.  Flowing?   Yes   187 No   G.P.M. flow    Temperature Cala. F. Quality							
Address COM ) LAST NEVY FORE	Artesian closed-in pressurep.s.i.							
Owner's Permit No	Controlled by D Valve D Cap Plug							
Vind 17 mile VV								
2. NATURE OF WORK	8. WELLT	EST DAT	·A					
	/							
■ New well	Be Pump	i	🗆 Bailer 🗆 Other			-		
		G,P,M,	Craw Down	Hours Su	mpad	-		
☐ Abandoned (describe method of abandoning)	60		.5.	3_		-		
,					·	·		
	<u> </u>							
3. PROPOSED USE	<b></b>			·	Coloringstype:N			
		-	,,,,,					
☐ Domestic ☐ Irrigation ☐ Test	9. LITHOL	OGIC LO	$\mathbf{c}$	46197	,	1		
	1 411200	pth	Material	***************************************	War	ter		
☐ Municipal ☐ Industrial ☐ Stock	Diam. From	1			Yes	_		
4. METHOD DRILLED	18 0	-:4-	Rocks, bard flor +to	larche		Х.		
	1/2/	28	Tax clay Years el	+0.5		¥		
Cable   Rotory   Dug   Other	1 <u>51</u>		Brown Sandy	· /a /		<u> X</u>		
	1/4	137	Gray Stand Stew		Ž			
5. WELL CONSTRUCTION	1352	233	Brown Stad St Brown Stady cl	A FEW IA		¥		
0 1000		247	Grey Sandy Play	2 mm 2 22 al	/sar	۲.		
Diameter of hole	1347	744	Brand Clau	*#		X		
Casing schedule: 🍳 Steel 🗆 Concrete	769	278	Grew 52nd st	b <i>re</i>	ζ			
Thickness Discretes From To 4250 Inches 878 inches +1 feet 19 feet	3.78	290	Bulum Stady Quay Sand Sta	clay		·Y		
inches inches feet feet	1290	303	Grey Sand Sto	r#	1			
inches feat feat	303	3.26	Bring Clay Brey Saul St		E	~		
inches feetfeet	7.5%	330	Brewn Sand Sten	2.005				
inches feetfeet	744	477	Liphi grayelas	s z szy ny	**4	×		
Was a packer or seal used?   Yes   No	1923	<b>1463</b>	Gwen Sand Stone	***************************************		V		
Was a packer or seal used? ☐ Yes ☐ No Perforated? ☐ Yes ☐ No	463	477	Stand Randy alay?	large 18	15			
How perforated?	6/27	482 (	concuted rack	chiad		X		
Size of perforation inches by inches	412	2.2×	hight area shale	(Stick.)		· V		
Number From To	1 55.T	267	Brand lines too	ė.		X		
perforations feet feet	575	583	Liph Larry Sha	la Istate		ж.		
perforations feet feet	5.83	589	Rack	× 12011393		£		
perforations feet feet	589	604	Tax shale (	sticke)		χ		
Well screen installed?  ☐ Yes 图 No	604	608	Rack	* *	1 1	K		
Manufacturer's name	60 8	641	Light grey Shal	e (Sticky		X		
Type Model No.	937	7/8	Light grey Shall Dark grey Shale Light gray Shale	_Sricky)	├	X		
DiameterSlot size Set from feet to feet	750	43	Black rock	(S.F.C.F.)		<u>~~</u>		
Diameter Slot size Set from feet to feet	1740	*7.01	L L	161.23	-	-		
Gravel packed? ☐ Yes ☐ No Size of gravel	1 7 <i>27 (</i> 1	204	List to in The la		1 1			
M	309	163	Dark grey Shale (	5 fick. 1		λ		
rises from test to feet	863	870	Darkgrey Sandy	Clay		×		
Surface seal? 1 Yes I No To what depth 1 8 feet	2.2	743	Dark or well a 34	Alá		X.		
Material used in seal Coment grout Cy Puddling clay	9.43	727	cipht gray 312	1 1 3 mm	-	-		
	722		The service of the se	-Ch1/3-4		뉘		
8. LOCATION OF WELL	994	1041	Black when to	ASS 7.)		91		
Sketch map location must agree with written location.		1090	Black the litery av.	een texta		^		
N N	Work star	ted	yers of gray Sticky	elsy ("		_		
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* , , , , , , , , , , , , , , , , , , ,	Driller's or	Firm's Na	me 7	Numb	ST .	-		
County Twin falls	Mu	Jar	6H Idaho			- 1		
11/1 1/1 1/ 1/	Address	0.	(2' 4 2	v	٠, ٧	-		
1 W 1 Y W 8 Sec. 3 上, T. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Glenad C:	War.	a Dolly			.		
	aigried BY		· ·	Date		- 1		

### BEFORE THE IDAHO DEPARTMENT OF WATER RESOURCES

N THE MATTER OF WATER RIGHT NO. 47-7106, 47-7287 & 47-14285 FOR IRRIGATION	)	COMMENTS AND EVIDENCE OF THOMAS LENO
--	---	--

COMES NOW, Thomas Leno, and provides the following comments and evidence in this matter:

- I am familiar with the property located in Section 20 and 29, T. 16 S., R. 16 E., B.M. hereafter known as the "Property." The Property is located in Twin Falls County close to the City of Jackpot, Nevada and is known as the Leno Farm.
- 2. My involvement/Title associated with Property is/was Owner/Manager
- 3. I am knowledgeable of the irrigation system, and crops that were irrigated during the time outlined in Item 4.
- 4. The year, crop type and water source on the Property have consisted of:

### Water Sourece (%)

Year	Crop	Ground Water	Mule Creek
1995	Hay	100%	
1994	Hay	100%	
1993	Hay	100%	
1992	Hay	100%	
1991	Hay	100%	
1990	Hay	100%	
1989	Hay	100%	
1988	Hay	100%	
1987	Hay	100%	
1986	Hay	100%	
1985	Hay	100%	
1984	Hay	60%	40%

- 5. Explanation of how irrigation water is diverted and delivered on the Property:

  Water was delivered by wheel lines, hand lines and pivots. Pressurized systems

  utilized a diesel powered pump to provide irrigation water from the well and

  storage pond.
- 6. Other information relevant to the irrigation water rights:

The winter of 1984 was the last heavy snow fall that Mule Creek Ranch received.

Historically, there were numerous springs around the cabin and up toward the

Mule Creek Canyon. Over the last twenty years the springs have slowly dried up.

It should be noted that in the last two years, (2009 and 2010) some of the springs

have started to flow again.

Another issue that I feel should be addressed is that the dam was built for erosion control. The uncontrolled ground water caused such erosion that Soil

Conservation assisted us to control the water from the dam.

DATED this 17 day of Systember, 20 10.

Nomas Jenny
Thomas Leno

SUBSCRIBED and SWORN to before me

this 17 day of September, 20 10.

M. Onn Port

NOTARY PUBLIC

Residing at: Non Jalls Adaho

My Commission Expires: April 5, 30.

DATED this 12 day of December, 20 10.

SUBSCRIBED and SWORN to before me

this 17 day of December, 2010.

### BEFORE THE IDAHO DEPARTMENT OF WATER RESOURCES

IN THE MATTER OF WATER RIGHT	)	COMMENTS AND
NO. 47-7106, 47-7287 & 47-14285	)	<b>EVIDENCE OF</b>
FOR IRRIGATION	)	Vern Buss
	)	

COMES NOW, Vern Buss, and provides the following comments and evidence in this matter:

- 1. I am familiar with the property located in Section 20 and 29, T. 16 S., R. 16 E., B.M. hereafter known as the "Property." The Property is located in Twin Falls County close to the City of Jackpot, Nevada and is known as the Leno Farm.
- 2. My involvement/Title associated with Property is/was Farm Manager
- 3. I am knowledgeable of the irrigation system, and crops that were irrigated during the time outlined in Item 4.
- 4. The year, crop type and water source on the Property have consisted of:

		Water Sou	rce (%)
Year	Crop	Ground Water	Mule Cree
1999	Grian, Hay, Beans	90%	10%
2000	Grian, Hay	100%	
2001	Grian, Hay	100%	
2002	Grian, Hay	1.00%	
2003	Grian, Hay	80%	20%

Explanation of how irrigation water is diverted and delivered on the Property:
 Water was delivered by wheel lines, hand lines and pivots. Pressurized systems
 utilized a diesel powered pump to provide irrigation water from the well and storage pond.

Del Kohtz Thomas Leno Diesel Powered Pump Analysis Brockway Engineering **GWS** 

irrigated Acres	155	
Volume	465	
Engine HP	111	
Efficiency of Engine	40%	]
Pump Efficiency	75%	•
Water Pumping Depth	100	Based on well log
irrigation Pressure	50 pst	
Irrigation Pressure Head	115	
Total Required Head	215	
y =	62.42	
BTU/gal Diesel	138700	http://www.dol.gov/pam/enerplan.html
1 HP =	2545	BTU/hr
Irrigation Efficiency	75%	
Primary Ground Water	94%	

Monthly

Date		Diese! (gal)	Average	Average	gal diesel/hr
8/21/19	999	986.1	-	·	
5/23/2	000	1501.4			
6/20/20	000	1439.3	1524		
7/12/20	000	1631.4		1488	2.07
5/12/20	001	1538.7		1400	2.07
6/7/29	301	1300.8	1452		
7/12/20	301	1515.5			
7/10/20	002	1675.3			
8/6/20	200	1900			
7/14/20	003	1687			
9/8/20	203	841			

	Theoreti	ical Calculation		Actual Calculation					
gal diesel/hr	HP <sup>1</sup>	Shaft HP <sup>2</sup>	CFS water/gal	CFS⁴	AF/day <sup>s</sup>	Days/month	months	AFA <sup>6</sup>	Acre-Feet <sup>7</sup>
11	54,50	21.80	0.67	1.38	2.74	30	5	411	1.99

irrigation to S/C

Consumptive AFA<sup>8</sup> 308

Primary AFA<sup>9</sup> 290

Acre-Feet10 1.87

irrigation to irrigation

3.0 ft/acre 11

4.0 ft/acre12 109.3

3.0 ft/acre<sup>13</sup> 9.3

Primary Acres @ Primary Acres @ Supplimental Acres @ Supplimental Acres @ 4.0 ft/acre14 7.0

- 145.7 <sup>1</sup> (gallon diesel/hr)\*(BTU/gal diesel)/(1 HP)
- <sup>2</sup> HP\*Efficiency of Engine
- 3 Shaft HP\*550/(y \*Total Required Head)\*Pump Efficiency
- 4 (CFS water/gal diesel)\*(2.07 gal diesel/hr)
- <sup>5</sup> CFS\*1.98347
- <sup>6</sup> (AF/day)\*(Days/month)\*months
- 7 (AFA\*Irrigation Efficiency)/(Irrigated Acres)
- <sup>8</sup> AFA\*irrigation Efficiency
- <sup>5</sup> Consumptive AFA\* % Primary Ground Water
- <sup>10</sup> Primary AFA/Irrigated Acres
- 13 Irrigated Acres\*Primary Ground Water
- 12 irrigated Acres\*Primary Ground Water/(4 acre-feet)
- 13 irrigated Acres-Primary Acres
- 14 (Supplimental acres\*3.0 ft/acre)/(4 acre-feet)

**GWS** 

# Irrigation to Stock and Commercial Water Transfer Calculations

Additional Water Needed	Total Demand Plus 10%	Demand	Current
17.00 AFA	17.00 AFA	17.00 AFA	0.00 AFA
	0%		

47-7106	Water Right		Acres sold/Transferring	AFA	CFS	<b>Total Acres</b>	
			ring				
2.00	Amount cfs		9.1	437	1.74	145.7	Primary
465	AFA	%		28	0.11	9.3	Supplimental
155	Acre Limit						
L.							
0.12	Transfer Amou		290	'n	76	'n	ø.
17.00	nt AFA	17 AFA	).0 AFA	87 ft/season	1% Primary Gro	15 ft/season	656 mm
1.73 448.00	Remaining Amount cfs AFA			Diesel Fuel Records	ound Water from affidavits		Three Creek Alfalfa
	465 155 155 0.12 17.00 1.73	AFA Acre Limit cfs AFA cfs 465 155 155 0.12 17.00 1.73	0.0624       %       17 AFA         Amount cfs       AFA       Acre Limit cfs       AFA       AFA       Cfs       AFA       cfs       AFA       Cfs       1.73         1.85       465       155       155       0.12       17.00       1.73	9.1 290.0 AFA 0.0624 % 17 AFA  Amount	437 28 1.87 ft/season Diesel Fuel Records 9.1 290.0 AFA 0.0624 % 17 AFA  Amount cfs AFA Acre Llmit cfs AFA Cfs 1.85 465 155 155 0.12 17.00 1.73	1.74       0.11       94% Primary Ground Water from affidavits         437       28       1.87 ft/season       Diesel Fuel Records         9.1       290.0 AFA         0.0624       %       17 AFA         Amount cfs       AFA       Acre Limit       Transfer Amount cfs       AFA       cfs         1.85       465       155       0.12       17.00       1.73	145.7       9.3       2.15 ft/season         1.74       0.11       94% Primary Ground Water from affidavits         437       28       1.87 ft/season       Diesel Fuel Records         9.1       290.0 AFA         0.0624       %       17 AFA         Amount cfs       AFA       Acre Limit       Transfer Amount cfs       AFA       Remaining A cfs         1.85       465       155       0.12       17.00       1.73

## State of Idaho Department of Water Resources Relinquishment of Water Right

I, <u>Tom Leno</u>, hereby relinquish to the State of Idaho all my right, title and interest in and to the Public Waters of the State of Idaho, <u>9.1 acres of irrigation</u> water located at <u>Township 16 South Range 16 East Section 29 SWNW</u>, <u>Boise Meridian</u> pertaining to Water Rights No. <u>47-14285</u>.

Signed this 2/5t	_ day of _	June	, 2011.
	<u>Jan</u> Water I	Aonô Right Holder(s)	STEEN TRANSPORT - No Alberta land alari da Alberta land alari da Alberta land alari da Alberta land alari da
Subscribed and sworn before me	this	21st	day of
NOTARY PUBLIC	<u>Notary</u>	Public)	Sanieles
My Commission expires	tug_	. W, 20	)13



December 11, 2009

Idaho Department of Water Resources Attn: Greg Sullivan 2016 Washington St. North Suite #4 Twin Falls, Idaho 83301

RE: Triple J Dairy, Inc.

To Whom It May Concern:

This letter is to inform you that currently Farmers National Bank is the mortgage holder for the real property commonly known as: 1291 E. 3900 N. Buhl, Idaho 83316

Township 10 South, Range 14 East, Boise Meridian, Twin Falls County, Idaho Section 15: NW1/4NE1/4, NE1/4NE1/4

as evidenced by Mortgage recorded in Twin Falls County, recording number: 2009-017842. Farmers National Bank is also aware of the pending purchase of 17 acre/feet of water by Triple J Dairy, Inc. to be associated and attached to the above mentioned property. It is anticipated that this water transfer will enhance the abilities of Triple J Dairy, Inc. and be beneficial for their operation.

If you have any further questions, please feel free to contact me. I can be reached at (208) 543-4354.

Sincerely,

Mike Darrow Loan Officer

Mike Darrow

Farmers National Bank

RECEIVED
DEC 15 2009

1-208-540-4770

RECORDING REQUESTED BY: STEVEN D. PETERSON

AND WHEN RECORDED MAIL TO: Steven D. Peterson, P.C. PO Box 5827 Twin Falls, ID 63303-5827

### TWIN FALLS COUNTY

PETERSON, NTEVEN D.
N:23108 am 04-10-20(M)
2008-007977

Nu. Pages; 2 Fee: 5 6.00 KRINTINA GLASCOCK County Clerk Deputy: CDI VRAR

### QUITCLAIM DEED

### KNOW TO ALL MEN BY THESE PRESENTS THAT:

That TRIPLE J DAIRY, an Idaho Corporation, hereinafter "Grantor" does hereby convey, release, transfer, remises and forever Quit-claim all its right, title and interest in certain real property located in Twin Falls County, Idaho unto FLINT JACOBSON, a married individual dealing in his sole and separate property, whose address is 1291 E 3900 N, Buhl, Idaho, and DUFF JACOBSON, a married individual dealing in his sole and separate property, whose address is 3877 N 1300 E, Buhl, Idaho hereinafter "Grantees", in and to said real property legally described herein, to wit:

### Parcel 1:

TOWNSHIP 10 SOUTH, RANGE 14 EAST OF THE BOISE MERIDIAN, TWIN FALLS COUNTY, IDAHO

Section 15: NW 1/4 NE 1/4

### Parcel 2:

TOWNSHIP 10 SOUTH, RANGE 14 EAST OF THE BOISE MERIDIAN, TWIN FALLS COUNTY, IDAHO

Section 15: NE 1/4 NE 1/4

Together with 80 shares of Twin Falls Canal Company Water

IN WITNESS WHEREOF, I have set my hand hereto this 2008.

TRIPLE J DAIRY, INC.

By <u>Huit factor</u> Authorized Agent

QUITCLAIM DEED - Page 1

STATE OF IDAHO	)
County of Twin Julic	) ss. )

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the same day and year in this certificate first above written.



NOTARY PUBLIC FOR IDAHO
Residing at: Bandle Salaha
My Commission Expires: 11-17-2010

No. C 1316	31	Due no later than Dec 31, 2009 Annual Report Form		Registered Agent and Address (NO PO BOX)				
Return to:	Į.		immai Nepoit i Oilii	adi Kepati din		LISA JACOBSON		
SECRETARY OF S 700 WEST JEFFER PO BOX 83720 BOISE, ID 83720-	RSON	1. Mailing Add TRIPLE J DAIRY LISA JACOBSOI 1291 E 3900 N		eeded.	1291 E 3900 BUHL ID 8			
ì	]	BUHL ID 8331	6		3. New Register	ed Agent Si	gnature:*	
NO FILING FE RECEIVED BY DU								
4. Corporations: Ente	er Names an	d Business Addres	ses of President, Secretary, Direc	tors and(o	ptional) Treasure	r.		
Office Held	Name		Street or PO Address	City	State	Country	Postal Code	
PRESIDENT	FLINT L	JACOBSON	1291 E. 3900 N.	BUH	L ID	USA	83316	
SECRETARY	LISA M I	ACOBSON	1291 E. 3900 N.	BUH	L ID	USA	83316	
5. Organized Under	the Laws of:	6. Annual Repor	t must be signed.*					
ID		Signature: Lis	a Jacobson		Date: 1	0/22/2009		
C 13163:	ı	Name (type or print): Lisa Jacobson		Title: 5	Secretary			
Processed 10/22/2009	9	* Electronically p	rovided signatures are accepted a	s original :	signatures.			

### IDAHO WATER COMPANY AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT

THIS AGREEMENT is made and entered into this Zaday of Of 2007 by
and between Del Kohtz of Idaho Water Company LLC (hereinafter "Seller") and Wilder John John John John John John John John
("Buyer"). The soller, Del Kohtz discloses that he is a licensed real estate agent acting
herein as principal for his own account and not representing or acting as an agent for the
buyer.

### TERMS AND CONDITIONS

1.	The Sell	ers, in consideration of the t	erms contained herein, do hereby
contract and	d agree to se	ll and convey to the Buyers	and the Buyer does hereby agree to
buy from th	e Sellers	Z acre feet/anum consu	mptive of Idaho Water Right
#47-71	106#_	#	and the water appurtenant
thereto, for		acre foot consumptive of	r per acre. There are
acres	or 17	Acre Feet of water include	led in this agreement. No land is
included in	this agreem	ent	
2.	The tota	l purchase price shall be	The entire
purchase pi	rice shall be	paid on the closing date des	cribed in paragraph 5 below, less 30%
finders fee	and down p	ayment paid at signing. Pay	ment of paid at signing.
3.	This Ag	reement for Purchase and S	ale of said license is contingent upon
and subject	to approval	of the application for transf	fer by the Department of Water
			Agreement shall become null and
void.			

4. The closing of this transaction and delivery of the executed Assignment to Buyer and the entire purchase price for the contract to Seller shall take place at the law offices of Givens Pursley, 277 N 6<sup>th</sup> St. Boise, Idaho, within thirty days of Buyers receipt of approval from the Department of the application for transfer. The Buyers shall be given possession and use of the water right and the water appurtenant thereto, upon closing.

Agreement for Purchase and Sale of Water Right -1

This transfer will remain in the name of Idaho Water Company LLC until 5. the contract is closed and paid for by the buyer. The buyer's place of use and point of diversion will be used for the transfer. When the contract is closed a change of ownership form will be signed by Idaho Water Co. LLC (Del Kohtz)

2088255617

- In the event of any suit proceeding by either party against the other party, 6. in any way arising out of this agreement, the prevailing party shall be awarded their reasonable attorney fees and costs.
- Each party agrees to pay one-half of any costs incurred in executing this 7. document. These costs shall not be more than ceach.
- This agreement shall be binding upon and shall inure to the benefit of the 8. heirs, personal representatives, administrators, successors and assigns to the parties hereto.
- 9. If Kohtz fails to accomplish the desired transfer with this or other water rights the upfront money will be refunded. Buyer understands consultant fees for preparation of transfer, calculation of mitigation, and attorney fees in the case of protests and hearings on their water transfer are to be paid by the Buyer.
- Del Kohtz has my permission to make needed changes to the Water 10. transfer application that is the result of this contract to facilitate the process of transferring the water. The changes made will not materially change the amount of money buyer has to pay, or the amount of water buyer receives.
- Kohtz (Idaho Water Company) has no control over the amount of mitigation or writedown IDWR will require of Buyers particular transfer therefore the amount Buyer pays is based on the amount of water transferred out of the original Water Right. Buyer understands that all mitigation rights provided by Idaho Water Co. LLC and all Reach credits accrued by this transfer shall remain the property of Idaho Water Co. LLC.

THER PROVISIONS	
IN WITNESS WHERE	OF the parties have caused their names to be subscribed
n the dates set forth above.	A Company of the Comp
	SELLERS TOOK Co. LL
	BUYERS
	by that lack

Agreement for Purchase and Sale - 3

TO: 7778506 TO: 124 134965 P.2/4 **P.2/4** 

### IDAHO WATER COMPANY LLC

1135 Valley Road South Eden, Idaho 83325 Office (208) 825-5617 Cells 410-0438 or 312-1135

### OPTION AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT

### TERMS AND CONDITIONS

- 1. The Sellers, in consideration of the terms contained herein, do hereby contract and agree to sell and convey to the Buyers and the Buyer does hereby agree to buy from the Sellers a portion of Idaho Water Right # 47-7106 and the water appurtenant thereto, for per acre. 17(seventeen) acres of water are included in this agreement. No land is included in this agreement.
- Dollars) The entire purchase price shall be paid on the closing dates described in paragraph 4 below. Buyer has paid in earnest money, which shall be deducted from the purchase price at closing.
- 3. This Agreement for Purchase and Sale of said license is contingent upon and subject to IDWR finding that the Water Right is valid and transferable. If the Water Right is invalid or non-transferable, this Agreement shall become null and void.

AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT - 1

11:27A FROM: MGR-7-2011

- 4. If the stipulations in paragraph 3 are met a closing shall occur on the portion of the water right that is valid and transferable. A payment of shall be paid when final approval of the first transfer is approved. Buyer shall be given possession and use of the portion of the water right paid. The portion of the Water Right not paid for shall remain in the ownership of the Seller. Closing and an ownership transfer of the portion of the Water Right paid for shall take place on or before 30 days after IDWR issues the first approved transfer of the Water.
  - 5. In the event of any suit or proceeding by either party against the other party. in any way arising out of this agreement the prevailing party shall be awarded their reasonable attorney fees and costs.
  - 6. Seller understands Buyer is transferring the water appurtenant to Sellers property to another property. The Water Right shall remain in the name of the Seller until Buyer pays for the Water Right.
  - 7. This agreement shall be binding upon and shall inure to the benefit of the heirs, personal representatives, administrators, successors and assigns.
  - 8. Non-payment of any of the payments on the dates described in paragraph 4 after 30 days notice to Buyer shall cause the contract to become null and void.
  - 9. A Special Warranty Deed for Water Rights of the form attached shall be signed at closing by the Seller.
    - 10. Legals for the lands where the Water Rights will be taken from will be;

T16S R16E SWSW - 17 Acres

11. The Water Right Report is attached.

AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT -2

APR-13-2011 09:28A FROM:

2088255617 c000c00011 TO: 7 78506

P.4/4

Date 4/6/11 Jon Sons

Dorthy Jeno

Date 4/10/11

Del Kohtz Managing Member of Idaho Water Company LLC

AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT-3

AGREEMENT FOR PURCHASE AND SALE OF A WATER RIGHT - 3

### **Livestock Confinement Operations**

### Water Requirements and Consumptive Use Worksheet

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The information, data, or computational procedures herein may not be duplicated without the express written consent of Brockway Engineering.

### COMPLETE BLUE HIGHLIGHTED SECTIONS ONLY

Prepared for:	Triple J Dairy	Revision: 9801
	The state of the s	Run Date: 6/8/2011
Remarks:		

### Herd Information - User Input

Number of dry cows Number of other adult dry animals	80 25	inned a new York office in the diagram	
Calves at age:		Heifers at age:	
1 month	0	5 - 18 months	0
2 months	0	15 - 18 months	0
3 months	30	18 - 24 months	- 0 · · · ·
4 months	0		<del></del>

Breed:

Large

520

### ANIMAL INFORMATION

Number of milking cows

Use defaults or enter values if known

Average body weight	1500 lbs	Nearest weather station	Buhl	
Milk fat percentage	3.34 %	Number of milkings/day	2	
Average days dry Annual milk yield per animal Percent dry matter in ration	60 21000 lbs/year 90 %	Check: Total herd size based of HERD SIZE OK		639

### Lagoon Information - User Input

Lagoon Number	Top width	Top length	SS (h:v)	Max depth	Average depth factor	% days with water	Top Area	Bottom Area	Average Area
1		<b>为数据规则证</b> (							
2			74.374 33 34 35 34 34 34 34 37 37 37 37 37 37 37 37 37 37 37 37 37	VASTEST VEVEL I		<b>建筑等等</b>			
3									
4			MESAR BASS	4/42/2012/2013		Sarana I			1
5	3.54 (\$1.00 A)	NESSEE SEE							
6	58888	70gr (18845518g)	1767W177745V45	Samanan aya.	1909 CHE W	1444 7455			1
7	and the second of the second			976 A 700 CF 71, 1971					
8									
9	14 (15 Jan 18 18)		15 S.		19 00 St 60 700	6.6.3.6			
10		(B) (B) (B)	18 M 18 M	V 6 4 6 6 6	60.00.00.00.00.00	A 5 6 6 6 6 7			
		<del>-</del>	Amina		TOT	AL ACRES	0.00	0.00	0.00

### Facility Information - User Input

Holding pen active
Number of sprinklers in pen
Average line pressure
Sprinkler nozzle size - primary
Sprinkler nozzle size - secondary
Daily operation time of sprinklers
Percent of days per year cows are washed

Number of free stalls
Length of each free stall
Width of each free stall

Is the feeding area flushed to lagoon? Is this housing area flushed to lagoon?

Eluching	ranuala	rata	

riusning recycle rate

Holding Pen 1	Holding Pen 2	
0	0	(0 = not used or nonexistent)
Comment of the State of the Sta	Name to Supervi	
	ACCOMPANY.	psi
`	0	inches
0 0	0	(enter 0 for single-nozzle sprinklers)
		minutes
经基础的		%

	0
feet	0
feel	0
_	***************************************

1500	No	TE ST	10.0
1 - 1500	Yes		1

Barn	F	eeding	Housing
0%	C	)% ~	0%

### CLEANING VOLUMES Use defaults or enter manufacturer volumes

Cleaning parlor floor	1180	3000	Cleaning pipeline	125	400
Cleaning milkroom	80	200	Cleaning equipment	200	200
Cleaning bulk tank	60	400		***************************************	

### Land Application Information - User Input

Type of system
Predominant cropping

Center Pivot
FCorn

Percent of waste water which goes to meet crop irrigation requirement

100 %

### Stockwater Component

### **Drinking Water Calculation for Lactating Cows**

4% fat-corrected milk yield	18921 lbs/year
Daily average FCM yield	62.04 lbs/day
Daily average milk yield	68.85 lbs/day
Estimated DMI	49.64 lbs/day

METHOD 1: Kertz

Estimated total water intake (TWI)

286.2 lbs/day or
34.3 gal/day

As-fed feed daily intake

55.2 as-fed lb/day

Water content of feed 5.52 lb/day in feed Drinking water intake 280.7 lb/day or

Drinking water intake 280.7 lb/day or 33.7 gal/day
Drinking water requirement

for lactating cows

Max drinking water requirement

19.6 ac-ft/year

·· g----,

METHOD 2: Holter and Urban

uction, and dry matter %

Drinking water intake

Regression equation with DMI, milk prod-

102.5 liters/day

27.1 gal/day

14086 gal/day

15.8 ac-ft/year

17500 gal/day 19.6 ac-ft/year

19.6 ac-ft/year

### **Drinking Water Calculation for Dry Cows**

Estimated DMI 28.5 lbs/day Average drinking water intake 13 gal/day

Average drinking water requirement

1365 gal/day 1.5 ac-ft/year

### Drinking Water Calculation for Replacement Herd (Calves and Heifers)

Age	GPD	Ac-Ft/year
1 mo	0	0.00
2 mo	0	0.00
3 mo	74	0.08
4 mo	0	0.00
5 mo	0	0.00
15-18 mo	0	0.00
18-24 mo	0	0.00
Drinking water requirement	74	0.08
for replacement herd	gpd	ac-ft/year

TOTAL STOCKWATER COMPONENT

21.2 AC-FT/YEAR

### **Commercial Component**

### Milking Parlor Water Usage Calculation

- Volume needed <b>per milking</b> in ead	on parior tor:		
Cleaning parlor floor	1180 gal	Cleaning pipeline	125 gal
Cleaning milkroom	80 gal	Cleaning equipment	200 gal
Cleaning bulk tank	60 gal	Cleaning cows	260 gal

Total milking parlor volume	3810 gal/day	
Second milking parlor volume	0 gal/day	
Recycled water	0 gal/day	
-	4.27 ac-ft/veai	

### Holding Pen Water Usage Calculation

•	Pen 1	Pen 2
Output of primary nozzle	#N/A	#N/A gpm
Output of secondary nozzle	0	0 gpm
Holding pen flushing volume	0	0 gal
Sprinkler volume	0	0 gal/day
Total holding pen volume	0	0 gal/day
Recycled water	0	0 gal/day

0.00 ac-ft/year

### **Other Flushing Water Calculation**

Daily volume needed for:

Feeding area flushing 0 gal/day Housing area flushing 2000 gal/day

Total other flushing volume 2000 gal/day

Recycled water

2.24 ac-ft/year

TOTAL COMMERCIAL COMPONENT 6.5 AC-FT/YEAR

### Consumptive Use Calculation

A.	Lagoor	ո Evaporaն	ion				
Ann	iual refe	rence ET	(Allen 8	& Brock	way,	1983)	0.
							_

Annual open water coeff (Kohler Nordenson Fox) 0.90 Annual open water (lagoon) evaporation 0.00 feet Manual override: Input annual lagoon evap feet

Total lagoon water surface area at full 0 sq. ft. Total lagoon bottom area 0 sq. ft.

Average surface area when water is present 0.00 ac 0 sq. ft. =

.00 feet

3663 gal/day

Total lagoon evaporation 0.00 ac-ft/year

### B. Animal usage: milk, metabolism, and excretion loss

Milking Waste excretion volume per cow 1.3 1.3 ft3/day/1000lb Water content 87.5 88.4 % Total water volume in excrement 6637 1354 gal/day

Percent of excrement flushed to lagoons 60 % (based on areas which are flushed) 40 % Consumptive use (evap.) of water in excrement

3196 gal/day Consumptive use (evap.) volume Excrement c.u. attributable to drinking water 3135 gal/day

Total milk production - assume 100% leaves site 35803 lbs/day or 4293 gal/day Water content of milk 3735 gal/day Water content attributable to drinking water

Water use for animal metabolism 7483 gal/day Metabolism water attributable to drinking water 7339 gal/day

Consumptive use - replacement herd (100%) 74 gal/day

Total animal consumptive use from drinking water 14210 gal/day or 15.9 ac-ft/year 75.3 % Percent of drinking water intake

### C. Parlor/holding pen cleanup

Average sprinkler washing system evap loss 2 % Free stall total area 0 sq. ft. =0.00 acres Length of time free stall concrete is wet 1 hr/day Average evaporation from wet concrete 0.15 in./day

Sprinkler system loss volume 0.00 ac-ft/year Free stall evaporation volume 0.00 ac-ft/year

Total cleanup loss 0.00 ac-ft/year

### D. Land application site

Crop evapotranspiration #N/A ac-ft/ac/year Irrigation diversion volume #N/A ac-ft/ac/year System efficiency #N/A Waste water volume to lagoons 11.8 ac-ft/year Waste water volume available for land application 11.8 ac-ft/year

Total crop consumptive use of waste water ac-ft/year

### Summary

Consumptive Use Lagoon evaporation Animal milk, excretion, & metabolism Parlor and holding pen cleanup Crop consumptive use on land application	0.00 15.9 0.00 # <b>N</b> /A	
Total consumptive use Percent of diversion volume consumed Annual crop consumptive use - IDWR allowable	#N/A #N/A 720 2.4	ac-ft/year % mm afa
Equivalent irrigated acres	#N/A	acres
Drinking Water Milking herd Non-milking herd (dry cows) Replacement herd (calves and heifers)	19.6 1.5 0.1	
Total drinking water volume	21.2	ac-ft/year
Diversion volume to acres conversion factor	#N/A	ac-ft/ac
Commercial Milking parlor Holding pen and cleanup Other flushing water	4.27 0.0 2.24	
Total commercial volume	6.5	ac-ft/year
TOTAL DIVERSION VOLUME REQUIREMENT	27.7	AC-FT/YR



May 16, 2007

Lynn Godfrey Dairy Inspector, Idaho State Department of Agriculture 629-C Washington Street North Twin Falls, ID 83301

Lynn,

I was contacted by Flint Jacobsen regarding concerns that you raised during your recent inspection of his dairy and specifically the management of his runoff. Apparently there were a couple of issues that needed some clarification.

In the proposal I submitted to ISDA Engineering Services the plan included collecting the runoff from the area around the barn, driveway and commodity storage which flows to the south end of the silage pit and piping it so as to keep it separated from runoff that had come into contact with any manure. Collecting the runoff at this point would prevent it from entering the manure storage and feed storage areas which would increase the total amount of water to be collected. The runoff water on the pavement and graveled area east of the commodity storage and milk parlor flows to the north down the paved and graveled areas to the collection point. The commodity storage area is higher and the amount of feed that would be exposed to any runoff, if any, would be minimal. Additionally, if there was any feed in this area, it would likely be grain or other commodities and not ensiled feeds which have a greater potential for contamination of surface water. The storage available for runoff from the corrals, manure storage area, composting areas and feed storage areas is very limited. The intent was to allow that "clean" water to be handled separately from the contaminated water. This was important as the amount of storage was limited and Twin Falls County's Zoning requirements for setback distances severely limited the options.

The area directly to the south of the corrals (between the corrals and the canal lateral) was planned for manure storage and composting of manure. The plan I prepared called for the use of berming of the south and west side of this area with berms at a minimum of 2' in height. Mr. Jacobsen has advised me that he will abandon the manure storage/composting area and will seed it down into pasture. If he does that he will not need to have berms for containment. It would still be important to either berm or to place a ditch at the north end of this area to collect any runoff and to deliver it to the west side of the property so it does not contribute to the runoff collection needed for the dairy.

The runoff from the manure storage/composting area located to the west of the corrals will drain to the runoff collection on the north end of the corrals.

The final modification that was proposed was to improve the banks of the containments for runoff and for the containment of process water. The ISDA Engineering staff recommended adding dirt to the outside of the banks of the containment ponds for the process water to increase their strength and integrity due to a 1-to-1 slope on the inside of the ponds. Adding dirt to the inside would have reduced the already marginal storage capacity of these ponds. Adding dirt to the top of the sides would provide for the necessary 1 foot of freeboard and provide a margin of safety by insuring that there was adequate freeboard around the entire outside edge of the pond. There appeared to be a couple of places where water had reached the very top of the pond wall on more than one occasion.

When I discussed the proposal with ISDA Engineering staff the concerns that were expressed were primarily the issues with the process water containment. The recommended resolution was to place additional dirt around the outside of the structure.

I hope this will answer the questions you had regarding the facility. If you have any further questions, please give me a call and I will be happy to discuss your concerns or to answer any questions you might have.

Thank you.

Sincerely,

Bob Ohlensehlen Certified Nutrient Management Planner Professional Animal Scientist Nutrient Management Solutions



Solutions for Animals, Plants and People May 16, 2007

#### Proposed Improvements for:

Triple J Dairy Flint Jacobsen 1250 E 3500 N Buhl, ID 83316

The following are the proposed changes to the Triple J Dairy facilities in response to concerns expressed by ISDA during the extremely wet period in the early winter 2006. The facility had no discharge but the containment structures were tested with the extreme wet weather.

Following are the proposals to increase the storage and to improve the integrity of the containment structures without creating issues with Twin Falls Planning and Zoning CAFO Ordinances.

#### Proposals:

- 1. All of the corral runoff and runoff from the west composting area is directed to a structure (identified as Runoff Containment Storage 1 on accompanying map) which currently is a bermed area that has been excavated on the upslope side. The proposal is to improve this structure by increasing it in size by making the area currently used deeper by excavating the existing storage. The resulting pond will have improved banks on the north side of the structure that will meet ISDA standards. The bottom of the pond will also be constructed to meet ISDA standards. The resulting structure should be 216,000 Cu Ft in capacity to meet the required 207,705 Cu Ft capacity needed for runoff. (See accompanying worksheet with runoff values)
- 2. Storage Ponds 1 & 2, which contain the water that comes from the parlor, need additional soil added to the banks. In one or more spots on the bank, there is no freeboard when the pond is full. Increasing the height of the banks will allow for more depth of fill and will provide a freeboard to protect against overflow from occurring.
- 3. The feed storage area and the graveled area around the barn and between the housing for the dry cows and heifers and the housing for the milking herd currently flows through the manure storage area and into a pond located near the road. This runoff will be diverted from the pond using a pipe to carry it to the pond near the road where it will be stored as relatively clean water. This will limit storage of manure-tainted water near the road, improving aesthetics. This pond will also be improved by working on the banks to increase their heights and widths, increasing their integrity. Currently, this pond is connected to the storage for runoff from the manure storage area. This connection will be broken by filling in the gap where the two are connected on the west end of the two ponds.

- 4. The runoff from the manure storage area will be contained in the storage pond that was created as described in Item Number 3. This containment is more than sufficient to contain the runoff from the manure storage area. The manure being stored is that manure which is scraped from the feed alleys.
- 5. Runoff from the calf housing area will be contained by creating a bermed area that, during times with high precipitation, will contain the runoff in an area located to the north of the horse and mule housing.
- 6. The Compost Area 2 will need to have a berm placed on the north and west side of the composting area to contain runoff. A berm that is 2 feet high should be adequate to contain the expected runoff.

All berms and storage structures shall meet the ISDA standards as outlined in the attached document.

Proposal prepared by

Bob Ohlensehlen Nutrient Management Solutions Certified Nutrient Management Planner Professional Animal Scientist

#### Dairy Facility Water Use and Runoff Culculations Prepared By Bob Ohleosehlen Certified Nutrient Management Planner Nutrient Maoagement Solutions, LLC.

Legal Description

Estimate for Jumber of Milking Anin				500	Hend	Number	f Dry Cows		130	Head
Veight of Mature Anima				100	Pounds					
Number of Heifers				180	licad			Head	Animal Units	Manusian (Spanish Community)
verage Weight of Heife	T5	*******	1.	100	Pounds		Cows	730	1,022	An.Units
							Helfers	180	198	An.Units
Type of milking parior b	eing use	:d	Herrig	ขอยส	Number of st	alls per side	in parlor	· 4 · •	8	head
fimes per day cows are i	milked	***********		2	Size of holdin	g pen			75	head
Type of Separator Being	Used	11114111	Gravit	y Set	ding Basin		60%	Separation		
danure from Mature Ar						Parlor an	d Holding Pen		15.0%	of Total
fanure from Heifers Ha						None	<b>a</b>			of Total
Daily manure stored as:	a Hquid	from the m	ilking he	rd	,,,,,,,,,,,,,,	**********	10214		80	Cu. Ft.
Daily separated solids th									120	Cu. Ft.
Daily manure handled a						***********	*************	•	1,129	Cu. Ft.
Type of housing used for					Openiot		Daily Beddi	ng	5	Tons
Type of bedding used for										Cu. Ft.
Type of housing used for							Daily Beddl	Dggd	1	Tons
Type of bedding used for	r repiac	emear anin	1813		Long Straw				416	Cu. Ft,
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ercent of the time sprin	-				Additional w					500
Vater used to flush hold	lag pen.			-				•		:=:
		Daily						Daliy		
lara Water Usc	************	Gallons	Cu.	(Mary Mary )			**************************************	Gallons	Co. Ft.	
lilk House Cleaning		20		2.7	Backflush Sy			600	80	•
Ipeline Cleaning		125		6.7	Cow Prep W			600	80	
Bulk Tank Cleaning		60		8.0	Wash Pen Sp			*	<del>-</del> .	0% Utilization
discellancous Cleaning Parlor Floor Cleaning		30 80		4.0	Wash Pen Cl			590	67	
MAINE CANDEL PRINTS							TOP	_		
			•	0.7	Calf Bottle C				-	i
arlor Deck Flush	*****	-	•	U. / -			Daily	2,015	269	•
	*****		•	-	Total Proce	ss Water	Daily	·		
arlor Deck Flush	******	-		-		ss Water	Daily	•	Cu. F1.	
'arlor Deck Flush 'arlor Spray Flush Recycled water is used fo	 	Parlor, (to	lding Pe	-	Total Proce	ss Water	Daily	Cations		
'arlor Deck Flush Parlor Spray Flush Recycled water is used fa Water Source and Amou	or unt Bein	- Parlor, (io g Recycled	lding Pe	- & C	Total Proce Amt Required Cow Orloking	ess Water Daily for Re	Daily	Gations 30,598	Cu. F1.	
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'arlor Deck Flush 'arlor Spray Flush Recycled water is used fo Water Source and Amor i	unt Bein Milk Co Chiller (	Parlor, Ito g Recycled oling Wate Cooling Wate Cooling Total Proc Gallons of Drinking V Annual Pr	rter	ally r To	Total Proce Amt Required Cow Urlaking Water to be R Ali Water Wi Be Stored Dai er Per Cow Per	Daily for Re  ecycled Il Be Recyclly P Day Heifers	Daily	2,015 32,598 2,015 3 22,691 1,728 2	Cu. F1. 4,890.6  - 269.4 gallons gallons gallons Acrc Feet	% of Total 7.6%
'arlor Deck Flush 'arlor Spray Flush Recycled water is used fo Water Source and Amor i	unt Bein Milk Co Chiller (	Parlor, Ito g Recycled oling Wate Cooling Wate Cooling Total Proc Gallons of Drinking V Annual Pr	rter	ally r To	Total Proce Ami Required Cow Orloking Water to be R Alf Water Wi Be Stored Dal er Per Cow Per	Daily for Re  ecycled Il Be Recyclly P Day Heifers	Daily	2,015 32,691 1,728 27 30	Cu. F1. 4,090.6	% of Total 7.6%
'arlor Deck Flush  'arlor Spray Flush  Recycled water is used for the second Amount of the second of th	unt Bein Milk Co Chiller ( Equipm	Parlor, Ito g Recycled oling Wate Cooling Wate Cooling Total Proc Gallons of Drinking V Annual Pr	rter	ally r To	Total Proce Ami Required Cow Orloking Water to be R Alf Water Wi Be Stored Dal er Per Cow Per	Daily for Re  ecycled Il Be Recyclly P Day Heifers	Daily	2,015 32,691 1,728 27 30	Cu. F1. 4,090.6	% of Total 7.6%
'arlor Deck Flush  'arlor Spray Flush  Recycled water is used for the second Amount of the second of th	unt Bein Nilk Co Chiller ( Equipm	Parlor, ito g Recycled oling Wate Cooling Wa ent Cooling Total Proc Galions of Drinking V Annual Pr Annual W	rter	ally r To	Total Proce  Amt Required  Cow Urlaking  Water to be R  Ali Water Wi  Be Stored Dai  r Per Cow Per	ecycled If Be Recycled F Day Heifers	Daily	Cellens 30,598 2,015 3 22,691 1,728 2 27 30	Cu. F1. 4,890.6  269.4 gallons gallons gallons Acre Feet Acre Feet Total	% of Total 7.6% 92.4%
'arior Deck Flush  Parior Spray Flush  Recycled water is used for the second Amount of the second of t	unt Bein Milk Co Chiller ( Equipm	Parlor, ito g Recycled oling Wate Cooling Wa ent Cooling Total Proc Gallons of Drinking V Annual Pr Annual W Width	rter	ally r To	Total Proce Amt Required Cow Orlaking Water to be R Alf Water Wi Be Stored Dal er Per Cow Per	ecycled If Be Recycly Cows Heifers Payed	Panily	2,015 3 22,691 1,728 2 7 30 f	Cu. F1. 4,890.6	% of Total 7.6%
Parlor Deck Flush Parlor Spray Flush Recycled water is used for Water Source and Amount in the Spray Flush Amount in the Spray Flush i	ength 1,000 1,000	Parlor, lice g Recycled oling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Gallons of Drinking Wate Annual Wate 209 248 148	rter	and & (	Total Proce  Amt Required Cow Drinking  Water to be R Alf Water Wi Be Stored Dal er Per Cow Per  Water Water Wi Area 209,000	ecycled If Be Recycly Cows Heifers Payed	Runof 25yr 24hr 24,819	2,015 3 22,691 1,728 2 27 30 f Winter 121,568	Cu. F1. 4,090.6	% of Total 7.6% 92.4% Corrals 1-2-4-5
Parlor Deck Flush Parlor Spray Flush Recycled water is used for the second Amount of Areas  Area 1  Area 2  Area 3  Area 4	ength 1,000 1,000 1,000	Parlor, liong Recycled oling Water Cooling Water Cooling Water Cooling Total Proc Gallons of Drinking Nanual Pranual Annual W.  Width 209 248 148 65	rter	an & (  maily  r To  r Day  nking  0  0  0	Total Proce  Amt Required Cow Driaking  Water to be R Ali Water Wi Be Stored Daler Per Cow Per  Water Wi	ecycled	Runof 25yr 24hr 24,819 29,450 23,370 7,719	Cellons 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6
Parlor Deck Flush Parlor Spray Flush Recycled water is used for the second Amount of the second Amount of the second Amount of the second Amount of the second	ength 1,000 1,000 1,000	Parlor, liong Recycled oling Wate Cooling Water Cooling Water Cooling Total Proc Gallons of Drinking V Annual Ar Annual W Width  2099 248 148 65 115	rter	on & (  mily  r To  Water  Day  ster  nking  0  0  0	Total Proce  Amt Required Cow Urlaking  Water to be R Ali Water Will Be Stored Dal Be Stored Dal Be Per Cow Pe	ecycled iii Be Recycled r Day Heifers Paved F T F F	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656	Callens 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Cory Cows & Man Sig Feed Sig Horse
Parlor Deck Flush Parlor Spray Flush Recycled water is used for the second Amount of the second of the	ength 1,000 1,000 1,000	Parlor, liong Recycled oling Water Cooling Water Cooling Water Cooling Total Proc Gallons of Drinking Nanual Pranual Annual W.  Width 209 248 148 65	rter	an & (  maily  r To  r Day  nking  0  0  0	Total Proce  Amt Required Cow Driaking  Water to be R Ali Water Wi Be Stored Daler Per Cow Per  Water Wi	ecycled	Runof 25yr 24hr 24,819 29,450 23,370 7,719	Cellons 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Corrals 3-6 Dry Cows & Man Sig
Parlor Deck Flush Parlor Spray Flush Recycled water is used for the second Amount of the second Amount of the second Amount of the second of the	ength 1,000 1,000 1,000	Parlor, lioning Water Cooling Water Cooling Water Cooling Water Cooling Total Proc Gallons of Drinking V. Annual Arnual W. Width 2099 248 148 65 115	rter	on & (  mily  r To  Water  Day  ster  nking  0  0  0	Total Proce  Amt Required Cow Urlaking  Water to be R Ali Water Will Be Stored Dal Be Stored Dal Be Per Cow Pe	ecycled iii Be Recycled r Day Heifers Paved F T F F	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656	Callens 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Cory Cows & Man Sig Feed Sig Horse
Parlor Deck Flush Parlor Spray Flush Recycled water is used fa Water Source and Amou  Areas  Area 1  Area 2  Area 3  Area 4  Area 5  Area 6  Area 7  Area 8	ength 1,000 1,000 1,000	Parlor, ito g Recycled oling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Gallons of Drinking V Annual Ar Annual W Width 209 248 148 65 115 49	rter	on & (  mily  r To  Water  Day  ster  nking  0  0  0	Total Proce  Amt Required Cow Urlaking  Water to be R Ali Water Will Be Stored Dal Be Stored Dal Be Per Cow Pe	ecycled iii Be Recycled r Day Heifers Paved F T F F	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656 7,758	Callens 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Cory Cows & Man Sig Feed Sig Horse
Parlor Deck Flush Parlor Spray Flush Recycled water is used for the second Amore and Amore and Amore and Amore and Area 1 Area 1 Area 2 Area 3 Area 4 Area 5 Area 6 Area 7 Area 8 Area 9	ength 1,000 1,000 1,000	Parior, ito g Recycled oling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Gallons of Drinking V Annual Pr Annual Ar Annual W Width 209 248 148 65 115 49	rter	on & (  mily  r To  Water  Day  ster  nking  0  0  0	Total Proce  Amt Required Cow Urlaking  Water to be R Ali Water Will Be Stored Dal Be Stored Dal Be Per Cow Pe	ecycled	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656	Callens 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Cory Cows & Man Sig Feed Sig Horse
Parlor Deck Flush Parlor Spray Flush Recycled water is used fa Water Source and Amou  Area 1 Area 2 Area 3 Area 4 Area 5 Area 6 Area 7 Area 8 Area 9 Area 10	ength 1,000 1,000 1,000	Parlor, Ito g Recycled oling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Gallons of Drinking V Annual Pro Annual W Width 209 248 148 65 115 49	r	a & Constant of the second of	Total Proce  Amt Required Cow Drinking  Water to be R Alf Water Wi Be Stored Dal er Per Cow Per Water Wi Water Water Wi Water Wat	ecycled iii Be Recycled r Day Heifers Paved F T F F	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656 7,758	Callens 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Corrals 3-6 Dry Cows & Mau Sig Feed Sig Horse Manure Sig
Parlor Deck Flush Parlor Spray Flush Recycled water is used fa Water Source and Amore Areas  Area 1 Area 2 Area 3 Area 4 Area 5 Area 6 Area 7 Area 8 Area 9 Area 10 Storage Requir	ength 1,000 1,000 1,000	Parior, ito g Recycled oling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Gallons of Drinking V Annual Pr Annual Ar Annual W Width 209 248 148 65 115 49 Precipitatis	r	and & Constant of the state of	Total Proce  Amt Required Cow Drinking  Water to be R Alf Water Vi Be Stored Dal er Per Cow Per VIII 199000 147,600 65,000 115,000 49,000	ecycled	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656 7,758	Callens 30,598 30,598 2,015 3 22,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Corrals 3-6 Dry Cows & Mau Sig Feed Sig Horse Manure Sig
Runoff Areas  L Area I Area 2 Area 3 Area 4 Area 5 Area 6 Area 7 Area 8 Area 7 Area 8 Area 9 Area 10 Storage Requir Total Area Cor	ength 1,000 1,000 1,000 1,000 1,000 1,000	Parlor, lick green record reco	r	an & Committee C	Total Proce  Amt Required Cow Drinking  Water to be R Alf Water Vi Be Stored Dal er Per Cow Per V.  Area 209,000 248,000 147,600 65,000 115,000 49,000	Paved F T T 106,772 Sq Ft or	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656 7,758	Collons 30,598 30,598 2,015 322,691 1,728 2 27 30 f Winter 121,568 144,253 85,854 37,808 66,892 28,502 591,649 Acres	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Corrals 3-6 Dry Cows & Mau Sig Feed Sig Horse Manure Sig
Runoff Areas  L Area 1 Area 2 Area 3 Area 4 Area 6 Area 6 Area 6 Area 7 Area 8 Area 9 Area 10 Storage Requir	ength 1,000 1,000 1,000 1,000 1,000	Parlor, lio g Recycled oling Wate Cooling Wate Cooling Wate Cooling Wate Cooling Wate Gallons of Drinking V Annual Pr Annual Ar Annual W Width 209 248 148 65 115 49 - Precipitating Runoff s a Liquid.	r	a & Constant of the state of th	Total Proce  Amt Required Cow Driaking  Water to be R Ali Water Wi Be Stored Dale Per Cow Per Water Wi	ecycledil Be Recycled.y. Daily for Re	Runof 25yr 24hr 24,819 29,450 23,370 7,719 13,656 7,758	Cellons 30,598  2,015 32,691 1,728 2 27 30  f Winter 121,568 144,253 85,854 37,888 66,892 28,502	Cu. F1. 4,090.6	% of Total 7.6% 92.4%  Corrals 1-2-4-5 Corrals 3-6 Cory Cows & Man Sig Feed Sig Horse

#### Storage Calculations for Runoff and Process Water

otal Storaga Nasdad	47-19-1 <b>9</b> 6-18-1-19-1	,, 654,490	Gu,Ft			
torage 1 Russif Area 1						
Storage Required in this structure	763 Cal Ft.					
Humber of Cells in the Storage	2					
Width of Starage Cells	70 Fest					
Length of Storage Calls	150 Feet					
Depth of Storage Cells	6 Feet					
Freeboard for Slorage	1 Feel					
Side Slepe of Interior Walts	2 to 1	A# 544	Cu. FL	Additional Storage Needed	13-9,583	Cu.Ft.
101St Withouth of Stough to figs Orderers With		19,100	94.14	Mantituladi minitalia tanahari minita	,0,,	
torage 2 Runoff Area 2						
	978 Cu. Ft.					
Number of Calls in the Legion,	1					
Viridin of Lagour Cells	160 Feet					
	320 Feet					
Depth of Lagren Calls	d Feat					
Freeboard for Lagoon	1 Fact					
Side Slope of Interior Walls	2 to 1					
Total Amount of Storage in this Structure		139,500	Cu. Ft.	Additional Storage Needed	32,97#	Cu.Ft.
forage 3 Runoif Area 3						
	127 Cu. FL					
Number of Cells in the Lagoon	1					
Wigith of Lagoon Cells	70 Fast					
	350 Feat					
Depth of Lagoon Cells	5 Feat					
Freeboard for Laguen	1 Feet					
Side Stope of Interior Walls	2 to 1	78 540	Gu.Fl.	Additional Storage Needed	28,981	Cu.Ft.
Total Amount of Storage in this Structure	**********	18,438	99. Fl.	LANGUIGH MINNEYS LEXTERMANDE	-4,891	T 11 70
torona A Dimeta Sees 4						
torage 4 Rucolf Area 4	332 Gu. Ft.					
	332 GU.PT.					
Number of Cells in the Legoon	120 Feet					
Length of Lagoon Cells	35 Feet					
Dapin of Lagona Cella	4 Feet					
Freeboard for Lagoon	0.5 Feet					
Side Sippe of Interior Walls	2 to 1					
Total Amount of Storage in this Structure		10,101	Çu, Ft.	Additional Storage Meeded	37,231	Guft.
				_		
torage 5 Runoff Area 5						
	910 Cu. Ft					
Mambar of Celis in the Lagoun	1					
Vilidib of Laggos Cells	ao Feot					
	200 Feat					
Depth of Legeon Cells	4 Foot					
Freeboard for Lagoon	9.6 Feet					
Side Slope of Interfor Walls.	2 to 1			Additional Statement Florida		Gu.FL
Total Amount of Storage in this Structure		41,484	Cy. Ft.	Additional Storage Nazded	•	OW!L
				Tylangular Barm		
entainment Serm				reangular dumit		
						~
riangular Berm 1				VAOIh	3/	
	931 Cu. Pt.			1	/	1
Haight of Trianglular Berm	û Fast			Great Land		1
Freeband for Tripingular Berm	û Fest					\
Width Water is Backed Up by Barm	G Feel G Feel			7		7
Length of Trienglular Serm			Cu. ft.	Additional Storage Needed	82 831	CHFL
Total Amount of Storage in this Structure	**********	•	COS PE	Without digital separation of the termination of th	02,007	O411
riangular Berm 2	*** **					
Storage Required in this structure	Cu Fi	•				
Height of Trianglular Benn	g roci û Faet					
Freeboard for Triangular Botto	u raei O Feet					
With Water is Backed Up by Serm Length of Triangitular Starm	Q Feet					
Total Amount of Storage in title Structure		-	CU. Ft.	Additional Storage Needled	-	Cu,Ft,
Antel Aditionally as a resinffic til Mice very organic troops						
				Trapezgidál Berm		
				rapezaigai seriji Freet	Poard	
rapezoidal Berm				\ Top Width	- The same of the	<u> </u>
Storage Required in this structura	- Cu. Ft	,		7 10h Atmit	/_	1
Height from bottom of structure to Top of Berm		7 Feei		<b>\</b>	7	1
		5 Feet		Groundterni	1	1
				/ Crosto rame	,	1
Freeboard for Berrn	. 1	6 Feet		\ I		7
Freeboard for Bernt	. 3	t Feel			1	```
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel		Holght	1	/
Freeboard for Berm.  Bettem Width of Trapezoidel Storage.  Top Width of Trapezoidal Storage.	. 3 . 140	d Feel O Feel	Cu.Ft.	Holghi	1	/
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel	) Gu. Pt.	Hotels	1	
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel	) Gu, Pl.		1	\
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel	) Gu. Pt.		1	
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel	) Gu. Pt.		1	\
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel	) Cu. Pt.	Bottom Width	<i>1</i>	Cu.Ft.
Freebaard for Barra. Buttom Width of Trapezoidal Storage Top Width of Trapezoidal Storage Length at Trapezoidal Storage	. 3 . 140	d Feel O Feel	) Gu, Ft.		Í	Qu.Ft.
Freeboard for Borm.  Bettom Wicksh of Trepezoidel Storage.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Storage in this Structure.	. 3	6 Feet 0 Feet 655,191	) Gu, Ft.	Buttom Makith  Additional Storage Needed	, Barro	Cu.Ft.
Feedboard for Born.  Britan Width of Trapezoidel Storage.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Storage in this Structure	140 140 gle Serm	a Feel O Feel 655,101 Storage	) Gu. Pt.	Bottom Width	r Barm	Cu.Ft.
Freeboard for Borm.  Freeboard for Borm.  Top Width of Trapezoidal Storage.  Length of Trapezoidal Storage.  Total Amount of Sterage in this Structure.  Combination Trapezoidal Borm Plus Trian  Storage Bornington Triange	gle Berm	5 Feel 0 Feel 555,100 Storage	) Cu. Pt.	Additional Storage Nacdas		Cu.Ft.
Feedboard for Born.  Frethan Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Sterage in this Structure.  Combination Trapezoidel Benn Plus Trian  Storage Required in this structure.	910 Berm - Cu. Ft	6 Feel 0 Feel 655,100 Storage 0 Fest	) Cu.Ft.	Additionsi Storage Naeded	x Barrn eboard	Cu.Ft.
Feeboard for Born.  Flotton Width of Trapezoidel Storage.  Top Width of Trapezoidel Storage.  Longh of Trapezoidel Storage.  Total Annuard of Storage in this Structure	gle Berm	5 Feel 0 Feel 555,100 Storage	7 Cu. Ff.	Additional Storage Reede3  Combination Trapeccidal & Triangula  Water Backed Up Fre		Cu.Ft.
Feedbard to Born.  Freeband 16 born.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Sterage in this Structure.  Combination Trapezoidel Born Plus Trian  Storage Required in this structure.  Leigh from bollom of structure to Top of Born.  Depth of the Trapezoidel Portion of the Structure.	gle Berm - Cu. Ft	Sionage  O Foel  O Feel	) Gu, Pt.	Additional Storage Nacdas		Cu.Fi.
Feeboard for Born.  Feeboard for Born.  Top Width of Trapezoidel Storage.  Total Annuard of Storage in this Structure.  Total Annuard of Storage in this Structure.  Combination Trapezoidel Borns Plus Trian  Storage Regulard in this structure.  Height from holiom of sturcture to Top of Born.  Depth of the Trapezoidel Plus of Born.  Freeboard for Born.	gje Serm	8 Feet 0 Feet 855,107 Storage 0 Feet 0 Feet	() Gu, Pt.	Additional Storage Reede3  Combination Trapeccidal & Triangula  Water Backed Up Fre		Cu.Ft.
Feedbaard for Barm.  Feedbaard for Trapezoidel Storage.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Sterage in this Structure.  Total Amount of Sterage in this Structure.  Combination Trapezoidel Bernn Plus Trian  Storage Required in this structure.  Heigh from bollom of structure to Top of Barm.  Degth of the Trapezoidel Potton of the Structure.  Fresbaard for Barm.  Sotton Writin of Trapezoidel Storage.	gle Serm	Storage  Fost O Fost	() €u, Pt.	Additional Storage Naeded, Combination Trapezoidal & Triangula Water Backed Up Fre		Cu.Fi.
Feeboard for Born.  Feeboard for Strange.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Storage in this Structure.  Combination Trapezoidel Born Plus Trian  Storage Required in this structure.  Leight from bollom of Storage to Top of Born.  Depth of the Trapezoidel Storage.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Length of Trapezoidel Storage.	gle Serm	5 Feet  5 Feet  5 Feet  5 Feet  6 Feet  6 Feet	) Gu, Ft.	Additional Storage Reede3  Combination Trapeccidal & Triangula  Water Backed Up Fre		Cu.Ft.
Feedbaard for Barm.  Feedbaard for Trapezoidel Storage.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Sterage in this Structure.  Total Amount of Sterage in this Structure.  Combination Trapezoidel Bernn Plus Trian  Storage Required in this structure.  Heigh from bollom of structure to Top of Barm.  Degth of the Trapezoidel Potton of the Structure.  Fresbaard for Barm.  Sotton Writin of Trapezoidel Storage.	gle Serm	Storage  Fost O Fost	<b>∜</b> -	Additional Storage Naedad  Combination Trapezoidal & Triangula  Water Backed Up Fre  Top Width  Grand Lond	obo ard	Cu.Ft.
Feeboard for Born.  Feeboard for Strange.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Total Amount of Storage in this Structure.  Combination Trapezoidel Born Plus Trian  Storage Required in this structure.  Leight from bollom of Storage to Top of Born.  Depth of the Trapezoidel Storage.  Top Width of Trapezoidel Storage.  Length of Trapezoidel Storage.  Length of Trapezoidel Storage.	gle Serm	Storage  Fost O Fost	Cu. Fi.	Additional Storage Naeded, Combination Trapezoidal & Triangula Water Backed Up Fre	obo ard	Cu.Ft.
Freeboard for Born.  Freeboard for Strong St	gle Serm	Storage  Fost O Fost	<b>∜</b> -	Additional Storage Naedas	obo ard	Cu.Ft.
Freeboard for Born.  Freeboard for Strong St	gle Serm	Storage  Fost O Fost	<b>∜</b> -	Additional Storage Naedad  Combination Trapezoidal & Triangula  Water Backed Up Fre  Top Width  Grand Lond	obo ard	Cu.Fi.
Freeboard for Born.  Freeboard for Strong St	gle Serm	Storage  O Feet Storage  O Feet O Feet O Feet O Feet O Feet	<b>4−</b> Cu, Fł.	Additional Storage Naede3  Combination Trepercidal & Triangula  Water Backed Up Fre  Top WRITH  Grand Lond  Heig	obo ard	Cu.Ft.
Feebsent for Berm.  Feebsent in Berm.  Frey With et Trapscridel Storage.  Total Amount of Sterage in this Structure.  Depth of Trapscridel Feet in Total Amount of Sterage.  Solton With of Trapscridel Sterage.  Longth of Trapscridel Sterage.  Longth of Trapscridel Sterage.  Longth of Trapscridel Sterage.  Longth of Trapscridel Sterage.  Total Amount of Sterage in this Structure.  Total Amount of Sterage in this Structure.	gle Serm	s Feet O Feet Storage O Feet	<b>4−</b> Cu, Fł.	Additional Storage Naede3  Combination Trepercidal & Triangula  Water Backed Up Fre  Top WRITH  Grand Lond  Heig	obo ard	Cu.Fi.

No. <b>W 29874</b>		e no later than Apr 30, 2010		Registered Agent and Address     (NO PO BOX)			
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080	1. Mailing A IDAHO WATE DELBERT G H 1135 VALLEY EDEN ID 83:	RD SOUTH		DELBERT G 1135 VALLEY EDEN ID 83 3. New Registere	RD SOUTH		
NO FILING FEE IF RECEIVED BY DUE DAT						eofene one formered diversity described the second	
4. Limited Liability Compar	ies: Enter Names and	Addresses of at least one Member or	Manager	•		i	
Office Held Nan	e	Street or PO Address	City	State	Country	Postal Code	
	BERT G KOHTZ NCES L KOHTZ	1135 VALLEY RD SOUTH 1135 VALLEY RD SOUTH	EDE!		USA USA	83325 83325	
5. Organized Under the La	ws of: 6. Annual Re	port must be signed.*			MARKET HAS A HAR BOOK BOOK BOOK		
ID	Signature:	Delbert G Kohtz		Date:	05/07/2010	)	
W 29874	Name (type	e or print): Delbert G Kohtz		Title:	Member		
Processed 05/07/2010	* Electronically	provided signatures are accepted as	original s	signatures.			

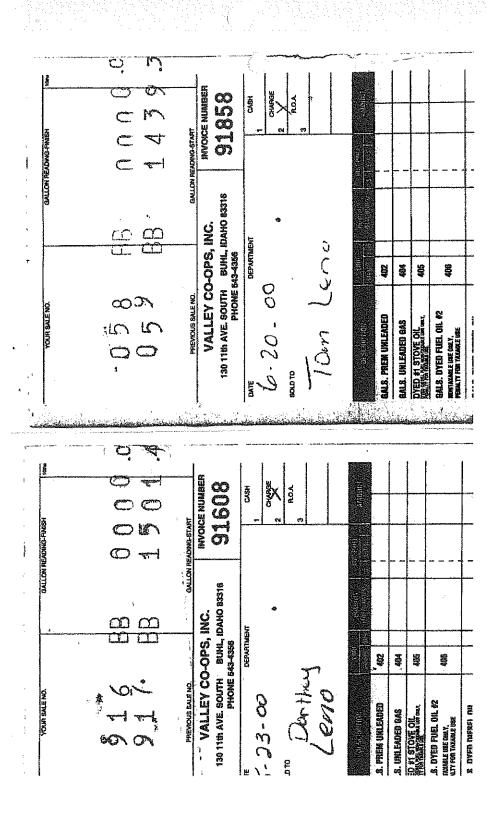
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Previous Suiznes	Total Charges	Credite or Payments	Advance Pay	Plea
1,281.2		1,281.24	Commercial	rina
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DRIVER COPY

## VALLEY CO-OPS, INC. 130 11th AVE. SOUTH • BUHL, IDAHO 83316 PHONE (208) 543-4356

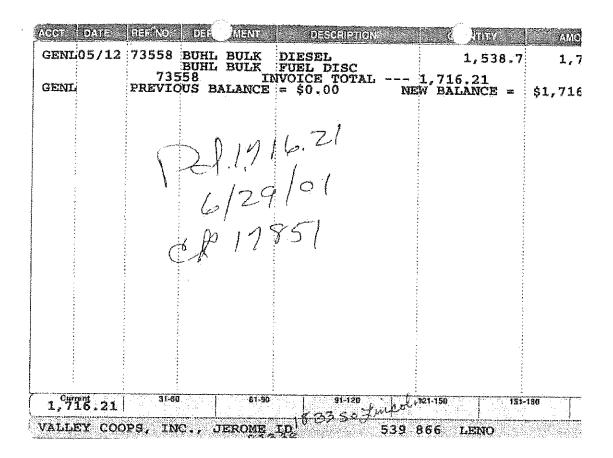
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An experience of	er <b>G</b> ø	es. I		PERFER	T.D	53	9 866	(spensy)		PAGE 1

GENT.	9185	JML BULK	FUEL DISC	1,439.3	1,524.22 CB
		è Balance In	VOICE TOTAL = \$0.00 NE	W DALANCE =	\$1,581.04
			$\mathcal{Q}_{l}$	1481.04 # 19485 1/11/00	
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1,581.04	31-60	61-50	94-120	141450 IBI-	180 a 180 a



STATEMENT OF ACCOUNT

VALLEY COOPS, INC. 1833 SO LINCOLN JEROME ID 83338-

SOLD BY:

539 866 07/10/01

S3.266.87

CUSTOMER

TOM LENO 4236 N 1900 E BUBL ID 83316-5622 STATE OF THE PARTY 
PLEASE RETURN PAYMENT STUB QUESTIONS? CALL 324-8000

AMOUNT REMITTED
THANK YOU

(/)

SEE REVERSE SIDE FOR IMPORTANT INFORMATION REGARDING FINANCE CHARGES AND YOUR RICHTS TO DISPUTE BILLING ERRORS.

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UEPT	BURL BULK BURL BULK
E L	73797
DATE	06/30

#### STATEMENT OF ACCOUNT

SOLD BY:

VALLEY COOPS, INC. 1833 SO LINCOLN JEROME ID 83338THANK YOU

CUSTOMER:

TOM LENO 4236 N 1900 E BUHL ID 83316-5622

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PLEASE RETURN PAYMENT STUB QUESTIONS? CALL 324-8000

SEE REVERSE SIDE FOR IMPORTANT INFORMATION REGARDING FINANCE CHARGES AND YOUR RIGHTS TO DISPUTE BILLING ERRO

DATE	REF	DEPT	DESCRIPTION PREVIOUS BALANCE			PAYMENT PAYMENT	İ	3,2 1,5
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		BUEL BULK	ROWN DIDO					:
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## VAL TY CO-OPS, INC. 1833 S. LINCOLN AVE. • JEROME, IDAHO 83338 PHONE 1-208-324-8000

PH. 324-2388 JEROME WENDELL PH. 536-5361 GOODING PH. 934-5664

PH. 543-4356 BUHL PH. 888-2253 SHOSHONE SHOS. C-STORE PH. 866-7657

THANKS FOR SHOPPING AT VALLEY CO-UPS THE BUHL STORE DEPINIS BARNES PARAGER

LENO, TON 4236 H 1900 E CUST # 539866 ienis:

100 8 600357 was a conver CONTRACTOR

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TERMS: Purchaser agrees that title to the property listed does not pass until fully paid for. This invoice is due and payable by the 10th of the following month. Past due amounts are subject to a finance charge of FIRE + 1:21 4個就發揮機模強務問有所持令 \* RECEIVED

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statements are true and correct.

Type of Business

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CIÆCK PAYMEN CKN 18288 1948



#### ey co-ops, inc.

1833 S. LINCOLN AVE. . JEROME, IDAHO 83338

WENDELL PH. 536-5361 GOODING PH. 934-5664

PH. 543-4356 SHOSHONE

PH. 688-2253 SHOS. C-STORE PH. 888-7557

THANKS FOR SHOPPING AT WILLEY CO-OPS THE RUML STORE DENVIS DANNES WAYGER

LENO, TON 4236 N 1900 E

CUST # 539866 TERMS:

INV B D DATE : 8/

j:

BHL

ID 83316

CLERK: HI

TERMS: Purchaser agrees that title to the property listed does not pass until fully paid for. This involce is due and payable by the 10th of the following month. Past due amounts are subject to a finance charge of 1-3/4% per month which is an annual percentage rate of 21%.

TIPE :12:1 经公共政策的 # INCEL \* CH ACC

CUANTITY UM	ITEM	DESCRIPTION PRICE  REFERENCE ST PAYME 3 1673	MĮ.

I carting that the property which? have have principled will be used for mining, manufacturing, processing or for farming, or for repair thereof. I certify that all statements are true and correct.

CREDIT ACCOUNT

Type of Business

CHECK PAYMENT CK# 18313 ABA# 1673.46

CIAIEMENI OF ACCOUNT # IMPROVED

DATE DUI

SOLD BY:

VALLEY COOPS, INC. 1833 SO LINCOLN JEROME ID 83338-

CUSTOMER:

TOM LENO 4236 N 1900 E BUHL ID 83316-5622

A CONTRACTOR OF THE PARTY OF TH

(1) 539 866 \$1,573.11 AMOUNT DUE 08/10/02

THANK YOU AMOUNT REMITTED

PLEASE RETURN PAYMENT STUB

PROPANE CALL 324-3525 ALL OTHERS CALL 324-8000

SEE REVERSE SIDE FOR IMPORTANT INFORMATION REGARDING FINANCE CHARGES AND YOUR RIGHTS TO DISPUTE BILLING ERRORS.

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07/10 77761	1000
BUHL BULK	DEPT
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(1,702.74) PAYMENT 1,573.11	TAMOORAN
PAYMENT	TYPE
1,573.11 1,573.11	SUB FOTAL
1,573,11	TAL BALANCE

#### VALLEY CO-OPS, INC. 130 11th AVE. SOUTH • BUHL, IDAHO 83316 PHONE (208) 543-4356 Sold By CHARGE Address: AMOUNT GALS. PRICE CODE PRODUCT 402 PREMIUM UNLEADED 404 UNLEADED DYED #1 STOVE;OIL Dyel Dasai has non-taxable use only, pr taxbis tota. 405 LS #1 DIESEL 405 HS #2/FUEL OIL 406 HS #2 DIESEL Diesellen northese LS #2 DIESEL 949 1803 408 1911 409 1803.19 TOTAL )

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	<b>A</b>	
Previous Sale Number	GALLON READING START	10tits

#### GALLONS DELIVERED

THE PURCHASER AGREES: That title to the property listed does not pass until fully peld for A fate charge of 1 3/4% per month (21% ANNUAL RATE) will be charged en accounts not paid by the end of the first billing pariod following purchase. That in case suit be instituted to collect this account, court costs and reasonable attorney fees will be allowed in addition to all costs allowed by law.\*

	VED BY				
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		Summer &			
X/					

B 78010

9.0. BOX A • 735 MINIE TWIN FALLS, IDAHO 83 PHONE (208) 733-0741 FAX (208) 733-0752	OOKA AVE 303-0009	11/	22/1	3 6 5768	3423	tena Tenan		TWIN FAL	4 5 MINIE LS, JAHO 83 08) 733-0741 733-0752					44;
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							1 "							

Thank You - We Appreciate Your Businessi

Thank You - We Appreciate Your Businessi

P.O. BOX A • 735 MINIDOKA AVE. TWIN FALLS, IDAHO 83303-0009 PHONE (208) 733-0741 FAX (208) 733-0752

NOCE

tage, A162182 D CASH SALE AMOUNT DATE / 24 / 2/ ACCOUNT NUMBER P.O. NUMBER SALE SALE (6,05 1200G 1951 PRICE DYED DIESEL FUEL - NON TAXABLE USE ONLY PENATLY FOR TAXABLE USE GALLONAGE TAXES NO. SIZE OTY. 8 얹 ζ. 184 <u>8</u> .184 1535 GALS. PRODUCT FEDERAL DIESEL TAX @ GASOLINE PREMIUM UNLEADED DAID STATE DIESEL TAX @ GASOLINE UNILEADED PLUS イタの DELIVERY POINT PRODUCT #1 DIESEL DYED OFF ROAD GASOLINE UNLEADED CLEAR DIESEL, ON ROAD DYED DIESEL OFF ROAD DELIVERED BY YOL Ų CODE

IDAHO STATE SALES TAX DRUM CHARGE I GERTIFY THAT THE PROPERTY WHICH I III HAVE PURCHASED WILL BE USED DIFFCTLY AND PRINARILY IN THE PROCESS OF PROPERTY OF CHERNING MANUFACTURING PROCESSING, OR APPLICATION OF SALES TAX WHERE IT'S BEING PURCHASEO.

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SUB TOTAL

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BUYER ACKNOWLEDGES RECEIPT OF GOODS AND AGREES TO THE TERMS SET FORTH BELOW FOR ALL PURCHASES MADE WITHIN ONE, YEAR FROM 1948 DATE PAST DUE ACCOUNTS WILL BE THANKE CARREST OF 11% HOWNE HOTEL THANKE CARREST OF 11% FOR THANKE FOR THANKE THANKE THANKS THANKE THANKS THANK 

Thank You - We Appreciate Your Business!

BLIYER SIGNATURE X

# BLACK PETROLEUM CO.

P.O. BOX A • 735 MINIDOKA AVE. TWIN FALLS, IDAHO 83303-0009 PHONE (208) 733-0741 FAX (208) 733-0752

71076

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DAZ /G / 2020 Y. ACCOUNT/NUMBER:	3ER	SE DICASH SALE	AMOUNT .				2844! 12		0			_								C/16.800			
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4 0-0%	-0	DELIVERY		GASOLINE	GASOLINE	GASOLINE	DYED OFI	# ₩	ង ក ប	ŝ	FEDERAL	STATE		CODE	2/5		-				HAVE AND B	Bŧ₽	A III

THE ACKNOWLEGGES RECEIPT OF GOODS AND AGREES TO THE TERMS SET FORTH BELOW. FOR ALL PURCHASES MADE WITHIN OME VEATH RROM THE DATE, DATE, PAST DUE ACCOUNTS WILL BE CHARGED TO FINANCE CHARGED OF 19%, PER MODITH (19%, ANNUAL RAITE).

BUYER X

; Thank Va.. ALL PURCHASES MADE WITHIN ONE YEAR FROM THIS DATE PAST ONE ACCOUNTS CHARGED A THANCE CHARGE OF THAN PER MONTH (18% MINUAL FAITE).

BUYER
SIGNATURE X YOU - We Appreciate Your Business!

CASS NOT SOLD FOR II I HAINATING BUSINESS!

TWIN FALLS, IDAHO 83303-0009 PHONE (208) 733-0741 FAX (208) 733-0752	70124
s Mule (ceel) Proc	DATE 301 3079
0	P.O. NUMBER
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Et Jupap Kollo May.	146,05
· ×	1/2004
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#### DEPARTMENT OF THE INTERIOR

## BUILDINGS/FACILITIES ENERGY MANAGEMENT & WATER CONSERVATION PLAN

#### INTRODUCTION

This document presents the Department of the Interior's plan for conserving energy and water in buildings and facilities. The Plan provides a sound basis for the accomplishment of the mandated buildings and facilities goals articulated in Executive Orders relating to energy and water conservation. They include a 20 percent reduction by FY 2000 and a 30 percent more efficient use of energy in Federal buildings and facilities by FY 2005 as compared to energy used in FY 1985, minimization of petroleum use, and procurement of energy efficient goods. (See the Foreword)

You may direct your questions about this plan to Mary Heying.

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#### Attachments

- 1. Semiannual Energy Conservation Performance Report, DI-234 (A link to this attachment is currently under construction)
- 2. BTU Conversion Table
- 3. Publications and Software

#### 1. GENERAL INFORMATION

#### 1.1 OVERVIEW

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of the land and water resources, protecting the fish and wildlife, preserving the environmental and cultural values of the national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses the energy and mineral resources and works to assure that their development is in the best interests of all. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration. The same responsible leadership will guide the Department into the 21st century in the field of energy conservation management.

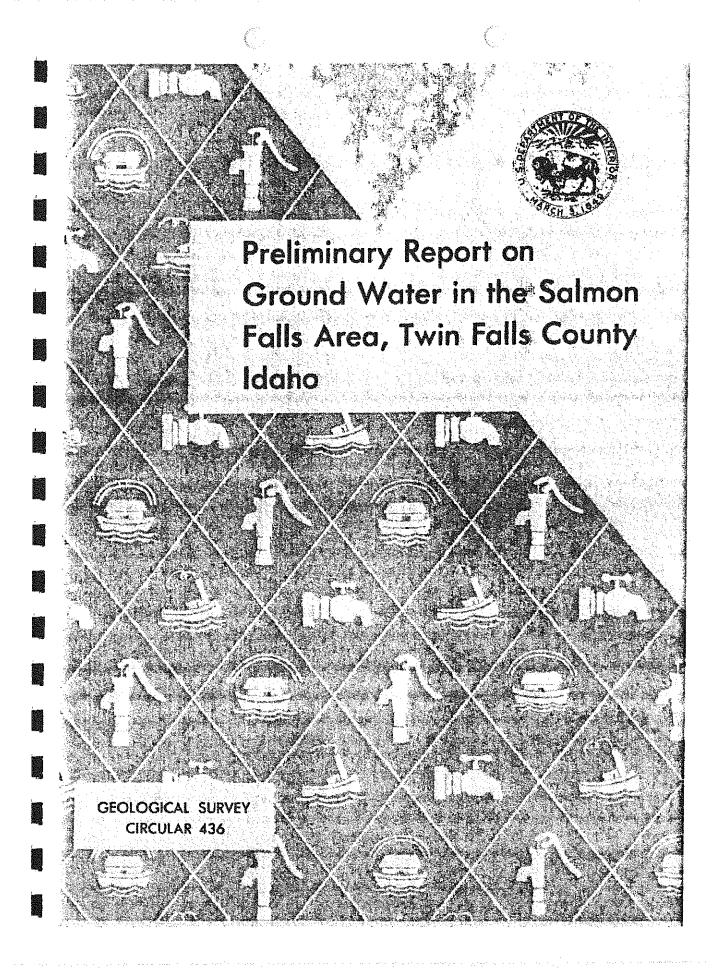
The Buildings and Facilities Plan of the Department of the Interior, is required under the National Energy Conservation Policy Act (NECPA) (As amended by the Federal Energy Management Improvement Act of 1988 (P.L. 100-615) and the Energy Policy Act of 1992 (P.L. 102-486); Sec.543(a).1992, concerning Federal Energy Management. In addition, the plan is updated to meet the newly established requirements and goals of Executive Order 12902, March 10, 1994 and the continuing requirement of Executive Order 13123, June 3, 1999, has been prepared as part of the Department's overall energy conservation management program. This program is a positive, action program that assigns the responsibilities for Department wide energy reduction activities. These activities, include program planning guidance, program performance and reporting, interagency activities and monitoring and evaluating energy conservation management projects. This program was

#### Attachment 2

#### **BTU CONVERSION TABLE**

Building & Facilities								
Electricity (MWH)	3,412 BTUs/kilowatt hour							
Fuel Oil (gal. 000's)	138,700 BTUs/gallon							
Nat. Gas (cu. feet 000's)	1,031 BTUs/cubic foot							
LPG/Propane (gal. 000's)	95,500 BTU/gallon							
Coal (short ton)	24,580,000 BTUs/short ton							
Purchased Steam (BTUs)	1,000 BTUs/pound							
Veh	icles & Equipment							
Auto. Gasoline (gal. 000's)	125,000 BTUs/gallon							
Diesel-Distillate (gal. 000's)	138,700 BTUs/gallon							
Aviation Gasoline (gal. 000's)	125,000 BTUs/gallon							
Jet Fuel (gal. 000's)	130,000 BTUs/gallon							
Navy Special (gal. 000's)	138,700 BTUs/gallon							
LPG/Propane (gal. 000's)	95,500 BTUs/gallon							

[Return to the Plan]



### Preliminary Report on Ground Water in the Salmon Falls Area, Twin Falls County, Idaho

By K. H. Fowler



Prepared in cooperation with the U.S. Bureau of Reclamation

GEOLOGICAL SURVEY CIRCULAR 436

Washington, 1960

United States Department of the Interior STEWART L UDALL, SECRETARY



Geological Survey
THOMAS B. NOLAN, DIRECTOR

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Figure 2-Sketch showing well-numbering system,

(fig. 2). The first two segments of a well number designate the township and range. The third segment gives the section number, followed by two letters and a numeral, which indicate, in order, the quarter section, the 40-acre tract, and the serial number of the well within the tract. Quarter sections are lettered a, b, c, and d in counterclockwise order, beginning with the northeast quarter of the section. Within the quarter sections, 40-acre tracts are lettered in the same manner. Well 115-15E-1adl, for example, is in the SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 1, T. 11 S., R. 15 E., and is the first well visited in that 40-acre tract.

#### GEOGRAPHIC SETTING

#### SUBFACE FEATURES AND DRAMAGE

The land surface of the Salmon Falls area is a gently rolling plain which slopes generally northward toward the Snake River. Altitudes range from about 5,200 feet above mean sea level in the southern part of the area to about 4,100 feet at the northern end near the High Line Canal of the Twin Falls Canal Co. The surface of the plain is broken by shallow drainage ways and by small volcanic hills which rise a few hundred feet above the general land surface.

Salmon Falls Creek, which forms the western boundary of the area, has cut a deep narrow canyon as much as 400 feet below the general surface of the plain. It is the only perennial stream in the area and is the principal source of surface water for irrigation. Desert Creek and Deep Creek are ephemeral streams which cross the area in a northerly direction and are tributary to the Snake River. Several small ephemeral streams flow onto the area from the Rock Creek Hills which adjoin the area on the east, but their flow is so small that their channels are not well defined

and at many places have been completely obliterated by cultivation. They are tributary to Deep Creek and Desert Creek.

#### CLIMATE

The climate of the Salmon Falls area, like most of the Snake River Plain, is semiarid. being warm in summer and moderately cold in winter. The mean annual precipitation at Hollister is 9.35 inches, of which about 20 percent falls during the growing season from April to October. The precipitation at higher elevations in the Rock Creek Hills and in the upper part of the Salmon Falls Creek basin in Nevada is considerably greater. It is estimated that the average annual precipitation on about 1,980 square miles of contributing drainage area is about 13 inches (fig. 3). The mean annual temperature at Hollister is 47.6°F. The growing season is comparatively short and the irrigation season on the Salmon Falls project ranges from 80 to 130 days and averages about 110.

#### LAND USE AND AGRICULTURAL DEVELOPMENT

About 30,000 acres is irrigated through the distribution system of the Salmon River Canal Co. A small area, less than 100 acres, in the southeast corner of the area is irrigated by surface water diverted from Deep Creek. Water from Cottonwood Creek is used to irrigate some land adjacent to the northeast corner of the area. Ground water pumped for irrigation is used mostly for supplementing the surface-water supply. The principal irrigated crops are alfalfa and clover, seed crops, beans, and peas. A few hundred acres, mostly at higher elevations near the Rock Creek Hills, produces grain without irrigation.

Most of the remaining 50,000 acres of irrigable land is uncultivated and is used only for grazing. Sagebrush and other desert plants are the predominant forms of vegetation, except in areas where the U.S. Bureau of Land Management has planted range grasses to improve the grazing value of the land.

The area is served by U.S. Highway 93 and a branch of the Union Pacific Railroad.

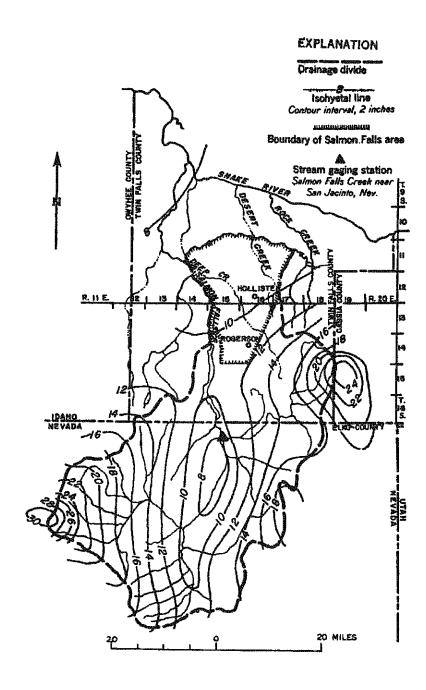


Figure 3.—Isohyetzi map of Salmon Falls area and Salmon Falls Creek bazin (U.S. Corps. of Engineers, 1952).

The deepest well in the area, 14S-16E-16bal, is 1,210 feet deep. The driller's log for the lowermost 304 feet shows silicic volcanic rocks intercalated with fine sediments or altered silicic rocks. According to the owner, the well was tested at several derths and no significant increase in yield was obtained after the well entered the silicic volcanic rocks. Unfortunately no record was kept of the tests, except for the final one which shows a specific capacity of 3.2 gpm (gallons per minute) per foot of drawdown. In another part of the area, well 13S-17E-6bc2 is reported to be 600 feet deep and was drilled for almost the total depth in solid rock that is probably silicic volcanic rock. Water under artesian pressure was encountered in what was described as a crevice in the rock. The combined flow of this well and another one nearby reportedly was about 2,700 gpm for a few years after they were drilled in 1903. Well 13S-15E-12bcl also taps silicic volcanic rock. The yield of this well was increased 30 percent by drilling 100 feet into the silicic rock to a total depth of 550 feet. These data suggest that the silicic volcanic rocks have a wide range in yield; however, the silicic rock in many parts of the area has not been tested.

#### GROUND WATER

#### SOURCE AND OCCURRENCE

Ground water in the Salmon Falls area is derived from precipitation on the area, from seepage loss from streams, canals, and reservoirs, from percolation from irrigated tracts, and from ground-water underflow from adjoining areas to the south and east. In general the direction of ground-water movement is to the north and northwest toward the Snake River, which serves as a base level for ground water in all of southern Idaho, Much of the ground water enters the area from the Salmon River Canal Co. reservoir and from areas of higher elevation to the south and east. The general slope of the water table in parts of the area for which data are available is shown on plate 1.

In some parts of the area, perched water is encountered above the main water table, and the scanty data suggest that at some places there may be more than one perched water table. Nevertheless, by careful study

of well logs and hydrologic data, wells were selected in which the water levels were believed to represent the main water table. These water levels were used to construct the water-table map (pl. 1). Although, because of sparseness of the data, the map may be inaccurate in some places, it does give a generalized picture of the position and gradient of the water table and the direction of ground-water movement. The apparent slope of the water table ranges from about 200 feet per mile in some places in the southeast corner of the area to less than 50 feet per mile in the northern part. The generally northwesterly slope of the water table is locally modified in four areas:

- 1. In the southwest corner of the area, the water table is built up by leakage from the Salmon River Canal Co. reservoir.
- 2. Between Rogerson and the north end of the reservoir, there is a very pronounced trough in the water table which indicates a zone of higher transmissibility extending northward.
- 3. A high on the water table in an area extending north and northwest from the Rock Creek Hills, between Rogerson and Hollister may be built up by leakage from artesian aquifers, by seepage loss from the main canal of the Salmon River Canal Co., and by infiltration of surface runoff in Deep Creek. At the west edge of this ground-water high, the water table drops off steeply and the contours swing sharply to the south, in a direction toward the contours on the east side of the trough between Rogerson and the reservoir. It is apparent that the trough is somewhat west of this area and extends in a direction slightly west of north.
- 4. At the north end of the area near the High Line Canal of the Twin Falls Canal Co., the water table has an apparent reversal in slope which may be due to a buildup of the water table from leakage from the High Line Canal and from infiltration of excess irrigation water or it may be due to a perched water table from the same source. However, wells used in defining the water table in this area range to 500 feet in depth, and water levels in the deeper wells are at about the same altitude as in the shallower ones; these facts suggest that the water table mapped is the regional water table.

## Water Resources of the Salmon Falls Creek Basin Idaho-Nevada

GRONOSTOAL AURYEN WATER-SUPPLE PAPER 1879-D

Prepared in cooperation with the U.S. Bureou of Reclamation and Idaho Department of Reclamation



## Water Resources of the Salmon Falls Creek Basin Idaho-Nevada

'y E. G. CROSTHWAITE

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1879-D

Prepared in cooperation with the U.S. Bureau of Reclamation and Idaho Department of Reclamation



### UNITED STATES DEPARTMENT OF THE INTERIOR STEWART L. UDALL, Secretary

GEOLOGICAL SURVEY

William T. Pecors, Director

#### D2 CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

Natural discharge of ground water is northward — toward the Twin Falls South Side Project and the Snake River — and is provisionally estimated to be 115,000 acre-feet annually.

Ground water in the Salmon Falls tract has a medium to high salinity hazard and a low sodium hazard. The salinity does not appear to affect crops presently grown in the tract.

The southern part of the Salmon Falls Creek basin, referred to as the upper drainage basin, has little agricultural development and is used mostly for grazing livestock. Silicic volcanic rocks and tuffaceous sedimentary rocks of Tertiary age and alluvial deposits yield water to livestock, domestic, and commercial wells.

#### INTRODUCTION

The Salmon Falls Creek basin is in southern Twin Falls County, Idaho, and northern Elko County, Nev. (fig. 1). To facilitate discussion, the basin is here divided into two parts, the Salmon Falls tract and the "upper drainage basin." The area of principal interest and detailed study is the Salmon Falls tract in Twin Falls County. The tract, topographically a broad rolling plain, makes up the project lands of the Salmon Falls Canal Co., Ltd. It is bounded on the west by the canyon of Salmon Falls Creek, on the north by the High Line Canal of the Twin Falls South Side Project, on the east by the Rock Creek Hills, and on the south by a series of unnamed hills (fig. 2). The "upper drainage basin" lies mostly in Nevada and consists of several basins enclosed by mountain ranges.

Salmon Falls Dam, in sec. 18, T. 14 S., R. 15 E., was constructed in 1909-11 to store the waters of Salmon Falls Creek for irrigation in the Salmon Falls tract. The dam impounds water in a reservoir with about 182,000 acre-feet of usable capacity. First delivery of water to farms was in 1911. The original plan was to irrigate a project area of 150,000 acres, but the water supply was so inadequate that by 1918 the project area was reduced to 35,000 acres. The actual number of acres irrigated has fluctuated each year according to the available annual water supply, and in recent years it has ranged from about 12,000 to 30,000 acres. To obtain additional water, the Salmon Falls Canal Co. in 1947 purchased about 8,000 acre-feet of decreed water rights from water users in the upper drainage basin in Nevada. Even with this additional supply the project has not been able to supply all irrigable lands.

The canal company has sought an additional water source for many years. Among the sources considered have been the transmountain diversion of water from the Bruneau River basin to the west and the diversion of uncommitted water from Rock Creek on the northeast. Thus far no attempt has been made to acquire water by either diversion method.

#### D4 CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

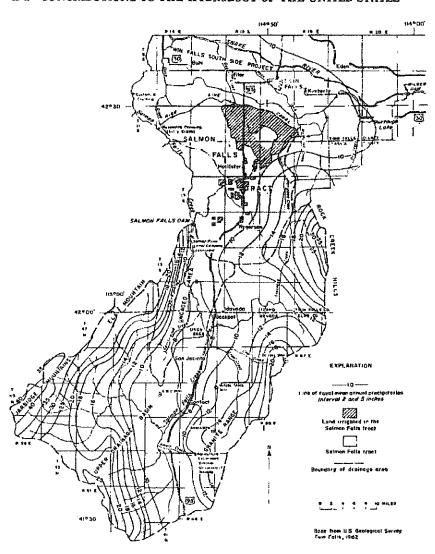


FIGURE 2. — Annual precipitation in the Salmon Falls Creek basin and irrigated land in the Salmon Falls tract. Precipitation data after Thomas, Broom, and Cummans (1963).

The great interest in the development of ground water for irrigation in the past 15 years has prompted many farmers to explore for ground water in the Salmon Falls tract. These efforts have been only partly successful owing to generally low permeability of the aquifers and to great depth to water in much of the area.

In 1959 the U.S. Bureau of Reclamation requested the U.S. Geological Survey to make a study of the hydrology of the Salmon

#### D18 CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

on several factors, among which are the distribution of precipitation in time and space, whether the precipitation occurs as rain or as snow, temperature, wind velocity and direction, and amount of sunshine. The rate and amount of recharge are also affected by the rate of precipitation, and the underlying land-surface material. There is no subsurface inflow of ground water to the Salmon Falls Creek basin, so it is assumed that the total groundwater supply is derived from direct precipitation; percolation from streams, reservoirs, and canals; and percolation from excess applied irrigation water.

TABLE 2. — Quantity and disposition of surface water available to the Salmon Falls tract

	Estimated average annual quantity (acre-feet)
Streamflow:	
Salmon Falls Creek at San Jacinto, Nev. Inflow to Salmon River Canal Co. reservoir from	1 101,000
ungaged areas	<sup>2</sup> 5,000
Deep Creek and North Cottonwood Creek (including	•
McMullen Creek)	9 1,000
Total	
Total	107,000
Disposition:	
Diversions from Salmon River Canal Co. reservoir	
Outstand Samon River Canal Co. reservoir	¹ 75,000
Outflow below dam	6,000
	3 E NAA
Seepage to ground water from regervoir	8 20,000
Diversion for irrigation from Hean Creek and	
North Cottonwood Creek	1 000
Total	107,000
<ul> <li>1 Gaged.</li> <li>2 Estimated from correlation methods.</li> <li>3 Reported by water-rights holders.</li> <li>4 Estimated from miscellaneous measurements.</li> <li>5 Estimated from Kohler, Nordenson, and Baker (1959, pl. 2).</li> <li>5 Estimated from Kohler, Nordenson, and Baker (1959, pl. 2).</li> <li>6 Estimated by subtracting evaporation from difference between inflow and or</li> </ul>	ŕ

#### Recharge

The permeability of the geologic units containing and transmitting ground water within the Salmon Falls Creek basin varies as previously noted. Thus, it is virtually impossible to determine the detailed distribution of water recharged to the aquifers without a very large number of observation points adequately distributed over the area. Such data are not available, and only the most general direction of movement of ground water is known. All recharge to ground water within the basin is here assumed to move northward beneath the tract to be pumped for use, or to discharge into the Snake River, or the Snake Plain aquifer.

Few measurements have been made of the quartity of precipitation and streamflow in the Salmon Falls Creel basin, and those few are poorly distributed within the basin and in time.